

<211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700895020H1

<400> 28379

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 attccttccc attttgtctg cccattgtc caggaagtaa tggaagatcc atacatagct 180  
 gcagatggct ttacgtacga agaagaggca ataagaggat ggttgaatag tggccacgac 240  
 acttccccca tg 252

<210> 28380  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700895022H1

<400> 28380

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 tacaccgtgg gagatacttc aggttgggca attggtactg attatagcac ttggactggc 180  
 gacaagatct tttcagtggg tgatagtctc gcgttcaact atggagctgg gcacacagtg 240  
 gatgaagtta aa 252

<210> 28381  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700895024H1

<400> 28381

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 ctacagtgtc tgatatcatc accccgagtt cttctagtcc tgccgttgac ccaccgacac 180

00229-ETFE50

tgtccctggg gctatccttt tcatctgacc aaagacagac atcatcaaga cattcagctt 240  
tacatgccat acaa 254

<210> 28382  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700895034H1  
  
<400> 28382

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ttagaatggt ttggtgattta tggaaaaaga agagccaaaa gtgatttatg gcttatatat 180  
tcagtgagt aattagtagt actttaacta aggtcatgtt ttgatggtag cagaaacttc 240  
caaagcagtt a 251

<210> 28383  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700895040H1  
  
<400> 28383

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tgaacgcagt tcaacgcaga tctcttgaaa ttgctcaatt tttttcagac taaaaaattg 120  
atgtgcccga caagtgatat attgaagctc tatattcaaa atcgtcactg agcacaaaac 180  
tcgcacatgt ggcaacagtc aggaagggaa agaaataaat gacaaaatgc atcagtaaga 240  
agaccatctc gg 252

<210> 28384  
<211> 251  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700895041H1  
  
<400> 28384

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 acctgcacct gcaccagctg ctccagctcc agctcctgct cctatatattt caggctcttc 180  
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 cttggaggga a 251

<210> 28385  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700895056H1

<400> 28385

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 ggtagctggt gcagcacatg gtggacatgg gtacccacct ggggcttacc caccaccacc 180  
 tggggcatac cctccgcacc aagggtaccc tccacaacat ggggtatcctc cggctgggta 240  
 ccctccacat 250

<210> 28386  
 <211> 249  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700895065H1

<400> 28386

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 aaccgtggca tgtttgtgtc acacttggtg gaacctttgt ccattggggg tgccattaat 180  
 tcgcacaagt tgtggggggc tagaatttct gctgctgttg cacaagaaga ggctgttggt 240  
 gtggctgat 249

<210> 28387  
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 <212> DNA

<213> Glycine max

<223> Clone ID: 700895068H1

<400> 28387

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aagaatgttg cagtcaagga tctcaagcgt ggttttgttg catccaactc caaggatgac 120  
cctgcccaagg aagctgccaa 140

<210> 28388

<211> 141

<212> DNA

<213> Glycine max

<223> Clone ID: 700895071H1

<400> 28388

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tgatcaccgt ggaagaagga tcaataggag gatttgggtc tcatgttgct cagttcatgg 120  
cccttgatgg ccttcttgat g 141

<210> 28389

<211> 245

<212> DNA

<213> Glycine max

<223> Clone ID: 700895087H1

<400> 28389

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atatgatgat gatgaaaaaa attaaacaat atctaatacat cttgtttttt tcctgcttag 180  
tgaagtattc gttttcatca ttttttgata ttgatacgct ctttgctttt ttcacgcccc 240  
ccttt 245

<210> 28390

<211> 140

<212> DNA

<213> Glycine max



<223> Clone ID: 700895088H1

<400> 28390

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gaaaaatgcc tgcattgctt tccgcaactt ctgtgaggag cagaacacag atgcgtgcgt 120  
cagatgtctg caacaagtga 140

<210> 28391

<211> 240

<212> DNA

<213> Glycine max

<223> Clone ID: 700895091H1

<400> 28391

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gcatttcctg atgagtttgt tttattttacc tgcaccctga gcgaccgggt tatacactct 180  
aaacttggtc tcagtgactg ctttgtgggtg tgtctctatc tgtaagaatt tatcaggatt 240

<210> 28392

<211> 241

<212> DNA

<213> Glycine max

<223> Clone ID: 700895093H1

<400> 28392

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agagtgattc agcaaaacaa tcactagagg agtcaacaca tgtgggtaac aaggattcaa 120  
gtgaagttac accctctcaa ccagaaaata ctgatgtaaa gatattctca aagttgggtca 180  
tgagcaatgg tgttgtagaa gataatgttt tagctgactc caagtccatt aaaaaacaag 240  
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<210> 28393

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700895112H1

<400> 28393

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cgcttatccg gcctgttcag tctcaaaaca tcaactgctc cttaaacaca cttggaaaca 120  
ttcagccatc tgtttttctt gcaaatacata gctcaagttt attacaggga attccgacat 180  
caattgagct taaccaatct aagcaaagca actgtacaac tggaatatca cagttaagtc 240  
aagttgattc 250

<210> 28394

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700895123H1

<400> 28394

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gcaacgtctt ctgaagagcg atccactgga ggaagtcaat ttttcaatga gaaacgcat 120  
gggtgtcataa tcctggagaa tgttaaagag gataataaga atgagttcga taaaacgggtg 180  
attgaagaca caaaagaaga agagttgtct gatgatggac agggctctgtc atttgatttg 240  
atggataag 249

<210> 28395

<211> 251

<212> DNA

<213> Glycine max

<223> Clone ID: 700895125H1

<400> 28395

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ttgcagcaat gttggtgggt gtgagtggac aatcatcagt gaagcctttg gtgaagacag 120  
tgaaggggaa gaaggtgtgt gacaaagggg gggagtgcaa aggttggtct gcatattgct 180  
gcaatgagac tatctccgac tacttccaga cataccagtt tgagaacctc ttcgcgaagc 240  
caattcgccg g 251

<210> 28396  
 <211> 254  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700895162H1  
  
 <400> 28396  
  
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 caagttttcc ccacgccaac aaaaccttat cttccaagga gatgctgcta tctcaccctc 180  
 cggggtgtta cgactcacca aggttgacag caacgacgtg ccaacgacgg gatccctagg 240  
 acgtgccctt tatg 254

<210> 28397  
 <211> 247  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700895171H1  
  
 <400> 28397  
  
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 ggccaagatc caggacaagg aaggaatccc cccggaccag caacgtctca ttttcgccgg 180  
 aaagcaactt gaggacggcc gtacccttgc tgactacaac attcagaagg agagtactct 240  
 tcacctc 247

<210> 28398  
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 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: 700895185H1  
  
 <400> 28398  
  
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ctcaactgtt gtcttcacta gaacggggtt catggctgtc cttctgagcc attatcgtcc 180  
 ttcgggcacc atatttgctt ttacagatga gaagagggtg caacagaggc tggctttgta 240  
 tcaagg 246

<210> 28399  
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 <213> Glycine max  
 <223> Clone ID: 700895187H1  
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 ctccccggaa tctatgacct cgatttcatt gctgccaacc aaggagaccg tgccaacaac 180  
 gtgatcaagg gcacaaagaa agaacaagtt caacaaatca tcaaagacat taaggagttt 240  
 aaggaaag 248

<210> 28400  
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 <213> Glycine max  
 <223> Clone ID: 700895193H1  
 <400> 28400

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 gctcttacac ttcaacgtgc attatctgaa ctactcacc taatagctat tctctcaata 120  
 ttcctagtga tcccttcctt ttgtttcaac cccaaaaagc tttataatgc ttcattattat 180  
 tctccatcta gttcagattg gtcacctgca gtggccactt ggtatggacc tgccaatgga 240  
 gatggaagtg 250

<210> 28401  
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<400> 28401

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 aatactctat taaacaagct caagagagaa gaatcaccag acgcagcgaa gaaaaattct 120  
 cctgagcctg cattcaagag gcaaagaatt gagactccat ctccattacc aacttttaag 180  
 gttaggaag aaaagctggg ggaccgcac actgctcttc agcaattggt ttcacctttc 240  
 ggaaagacgg ataca 255

<210> 28402

<211> 253

<212> DNA

<213> Glycine max

<223> Clone ID: 700895217H1

<400> 28402

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 cttgctgtta tggcctttgc tggtgaccag gctcagaaca ttcactacac tccaattcc 180  
 aattccacct tccaaactgc taacgtcaat ttcactgcca aggctgagag gactagaatt 240  
 gcattctata gca 253

<210> 28403

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: 700895223H1

<400> 28403

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 cactgttcaa cctgctggta aagaccagtc cgtgttgctc gcaacaacca agacaaagaa 180  
 gcaaaacaag cctgctgctt tgcttcacaa atctgtcatg aaaaaggagt tccgtaggat 240  
 ggcaaaggct 250

<210> 28404

<211> 252  
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<223> Clone ID: 700895233H1

<400> 28404

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 cggagttgct gtcccgaac ggggtgaagt tcggagaagc cgtgtgggtc aaggccgggt 180  
 cccagatctt cagcgagggt gggctcgact acttgggcaa cccaagcctg atccacgccc 240  
 agagcatcct cg 252

<210> 28405  
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 <212> DNA  
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<223> Clone ID: 700895256H1

<400> 28405

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 atcatattta gccaaaggcag ttgcaacgga agccgagtcc acgtttttca gtgtttcttc 180  
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 aatggctcg 249

<210> 28406  
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 <212> DNA  
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<223> Clone ID: 700895261H1

<400> 28406

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 tcatectctt cttggcggac aatgacccgg ctacctctct cagctgggtgc cctgattgtg 180

tgagagcaga acctgtgata tacaagaagc tggaggcttc acctgatgac attgcactat 240  
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 tctctgggtg agattgtgga tcttgcactg aagggccaga tagcaactga gtgtatacac 180  
 aaatttgggt aggttgcgct gagttgtttg cttgaggatg ggactcaaag gccctccatg 240  
 aaggac 246

<210> 28408  
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 <212> DNA  
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 cttccgttac aaggaaattg agaatggaat gctgtgggaa gttgagggga agtgggttgt 180  
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 tgagggagt 249

<210> 28409  
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 <400> 28409

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 tactatgtac ttggtgggta ggagttactc aactaggaaa tggatatctt ctaagtttga 180  
 agatttcctt aagcatgtta aggctgtcat ccatttgtc ttctaaatgt tgtaatgaac 240  
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<210> 28410  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700808404H1  
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 atggaagcca ccaagtgggt ttaaagttaa acggtgatgc cccaagaag tgtgatgact 180  
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<210> 28411  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700808409H1  
 <400> 28411

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 aatatttttag ataccatgac tctgatctgt atgatttttc tattgagggc aaccttcctt 180  
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 tgctgattca attgtttgaa atg 263

<210> 28412  
 <211> 267  
 <212> DNA



<213> Glycine max  
 <223> Clone ID: 700808413H1  
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 accctcttcg tgatcgagtt catcttggtc cactacgtcg agatccgaag atggcaggac 180  
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<210> 28413  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700808420H1  
 <400> 28413  
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 attccaagtt cattgcgaga tcttctaaag cctggccctg caagtgttga aatcgatgat 180  
 caccctatgc aaattgaaga aacacagtac ccgaaaacct tcttctataa agaagacctt 240  
 catccaggca aaacaatgaa agtac 265

<210> 28414  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700808428H1  
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 aagccagaat ggatcaacca tcaacagtgg caatcatctt aacaacggca acaggtatga 180  
 cgactcatac cactacggtg aacgccctat ttataacagt ggcactttca atggtaatgg 240

caacgggtca catatcaagg gtgg

264

<210> 28415  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700808429H1

<400> 28415

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ttccaacgcc tctgatctcg acaaggagga gagacccgaa gttttgtccc tactaccacc 180  
atatgaagga aaatcagttg tagaacttgg agcaggtatt ggaagattca cagttgaatt 240  
ggccaagaaa gctggccagt tacttg 266

<210> 28416  
<211> 265  
<212> DNA  
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<223> Clone ID: 700808434H1

<400> 28416

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gtctcgacgc ggagttgaag ctggttggtg agtacgggct tcggtgcaag agagagctgt 180  
ggaggggtgca gtacgcgctc agccgcaccc gcaacaacgc gcggaacctc ctcaccctcg 240  
acgagaagaa cccgcgccgg atctt 265

<210> 28417  
<211> 262  
<212> DNA  
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<223> Clone ID: 700808436H1

<400> 28417

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caatggctac cactaaagtt tacattgttt actattctac gtacggacat gttgagaagt 120  
tagctgaaga gattaaag ggagctggtt ccgttgaagg tgtggaagca aagctatggc 180  
aggtacctga aacactttct gaagaggtcc ttgggaagat ggggtgcacct ccaaagagtg 240  
atgtaccgat tattacaccc aa 262

<210> 28418  
<211> 259  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700808439H1  
<400> 28418

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gcaacggctg cggaggctgc aagatgtacc cagacttgag ctacactgag tcaaccacca 180  
ccgagacctt ggtcatggga gtggcacctg ttaaggctca atttgagggt gctgaaatgg 240  
gtgtgcccgc tgagaacga 259

<210> 28419  
<211> 259  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700808442H1  
<400> 28419

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taagtgcag agctagagga gaatattctt tgggggtagg tcatgcttga gaaatgaaaa 180  
acaataaaaa ttatctttta ttcactttta aacctttaaa aaaggggcta aacttttatt 240  
atctattaac tattatgcc 259

<210> 28420  
<211> 267  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700808447H1

<400> 28420

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 tgttgtaaaa atcgcataaa ttccaaaatc tgcttcttga ttttccaaca aatgaaactg 180  
 cagggtggtgg tttgatata ggaatagcat tggctgcaa gtccattaac ccagctattc 240  
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<210> 28421

<211> 263

<212> DNA

<213> Glycine max

<223> Clone ID: 700808449H1

<400> 28421

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 tgcagaaatc tttgtccaga gttagttatt tagtttctga actaaaactg aagtgaatt 180  
 ttgatgggct aattgcttca tactttatat cacacatctc atagcatgtt gtaaagtccg 240  
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<210> 28422

<211> 259

<212> DNA

<213> Glycine max

<223> Clone ID: 700808452H1

<400> 28422

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 aaaaactata actacagctc agaatcaacg catacaaac agctttgctc cattagccat 120  
 tgcaattcag actctctttt aaatgagatt gctagagcgg cccttggtacc agacacaagt 180  
 tatattgcca agccagctgc ctcatggctt gatgatattc ttgtgtgggt gtctccagaa 240  
 gcatttgggt gctgcagga 259

<210> 28423  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700808456H1

<400> 28423

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 actaccacct tgacacaccg gacaacaacc ctaaacttcc atgggaattc accgaggcca 180  
 atcaagcaaa ggtaaggag attttgtctc actatccatc caactataag caatctgcta 240  
 caattcctct tttggatc 258

<210> 28424  
 <211> 261  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700808460H1

<400> 28424

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 cccaagcagc ctccaagagg gttgaagtac aaaaaggata tcttgcggtc tatgttggag 180  
 ataagatgag gcggttcatg attccagtat catacttgaa caaaccttca tttcaagaat 240  
 tacttagtca agcagaagaa g 261

<210> 28425  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700808463H1

<400> 28425

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ggtttagttg ctggcactat ctgggggacc gtagttgccca cctgggtatga tgtccctcgt 180  
 gtagagagaa atgttgctct tccagggctg attaggactt tcaagatgat gggcaactat 240  
 ggtttgacct ttgctgccat aggag 265

<210> 28426  
 <211> 263  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700808465H1  
 <400> 28426

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 gtgttcctga tccaagatc aggatttatg atgttggtat gaagaagaag ggtgttgatg 180  
 agtttccttt ctgtgtccat ctggtagtt gggagaagga aaatgtttca agtgaggccc 240  
 tggaagctgc tcgcattgct tgc 263

<210> 28427  
 <211> 261  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700808466H1  
 <400> 28427

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 cacctctgag ttccctcacg ttgaacgata cttttggacc ttggtcaacc agcctaactt 120  
 cagaaagatt ctaggtcagg ttaagcaaac tgaggctggt ccacctattc catcggcaaa 180  
 gaagccttcc cagtctaagg aatctaagcc caagcctaag gatgaaccaa agaaagtggc 240  
 taaaccagag cccaaagaag t 261

<210> 28428  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700808469H1

<400> 28428  
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 ttgctgttag ttgacaaaaa gataaccaat gcacgggagc ttatcaacat actggaggat 180  
 gctattagaa gtggacaccc tatattgatt attgctgagg atattgaaca agaggcttta 240  
 gcaactcttg tgggtga 256

<210> 28429  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700808482H1

<400> 28429  
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 tgcgatgaag atcgaggaat tggacgatgg agagtgtagt agggaccatg aagagaagtt 180  
 tgagaggcag attgtgagcg ttgatgccaa gagagcgttg gttggagcag gtgctcggat 240  
 cctgttctat cccacactc 259

<210> 28430  
 <211> 254  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700808486H1

<400> 28430  
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 ccttcccata atagggaatc ttcataact agatagtcct tctcttcatt agcagctatg 120  
 gcatctctca aagaaatatg gtcctttatt ttcccttcaa tttggattaa ggccagccat 180  
 agttgtttcc tctccaaaat tggccaaaga ggtaatgaaa gacaatgacc ttgagtgtg 240  
 tggacgacct aaat 254

<210> 28431

<211> 255  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700808488H1

<400> 28431

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 taccagttat caggcaccac aggggagttc aacagccaaa tgattccaag gctttctata 120  
 atttctctca caccactctt gtccttgagc ggttctctcat ggtggatgat atattgcaaa 180  
 aaagtttcac ctttacaag agtgagtatt atatcactac tagtcttatg cttctcttgc 240  
 tcactctgcc acttg 255

<210> 28432  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700808491H1

<400> 28432

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 ttattggtag ttcatgagac tcaattggca atatatgatg cctctaagat ggaacgcatt 120  
 cggcagtggtg tcccccaaga tggtctgtct gccccatat catatgcagc ttattctctgc 180  
 aacagtcagt taatatatgc tacattttgt gatgccaaca ttgggtgtttt tgatgctgat 240  
 agcttgaggc tcagat 256

<210> 28433  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700808495H1

<400> 28433

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 gatgttactc ctctatccac tggtttggag actgcaggag gagtcatgac tgtgttgatt 120  
 cccagaaaca caaccattcc caccaagaag gagcaggtgt tctcaacctt ctctgacaac 180



cagcccggtg tgttgattca ggtctatgaa ggtgaacgaa cgaggactcg tgacaacaat 240  
 ttgcttgga aatttgagtt atc 263

<210> 28434  
 <211> 127  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700940905H1

<400> 28434

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 cccacaccct ctgtgtgagg tgtggccgcc gcagtttcca cctccagaag agtcgttgcg 120  
 ccgctg 127

<210> 28435  
 <211> 120  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700940944H1

<400> 28435

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 tgatgatctc tccaacattt ctctaccca cctaagtgag tgttgctgaa cttgccacaa 120

<210> 28436  
 <211> 243  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700940981H1

<400> 28436

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 ctgaatcaac aattcggaac cagttagcaa tgttcagatt ctggggatca caagagcaac 120  
 aatcgagga tggttcttcg cagtcacagt cgtggtatcc gccatcggtg gtgagttcac 180  
 ctacttcacg gaggcctgtt acaccgactg catcttcttc ttcattatcg cagaggcctt 240  
 cgt 243

<210> 28437  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941018H1

<400> 28437

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 ataattgatc ctagattgga gaatcaatac tcagtgaggg cagcacaaaa agcatgtagc 120  
 ttggcttatt actgtttgag tcaaaatccc aaagcaaggc cactaatgag tgatgtgggt 180  
 gagacattgg agcccttgca aagttcaagt gttgggtccag gtgaagtctc attatctgga 240  
 tcaaatagtg ggagtgtctg gcc 263

<210> 28438  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941034H1

<400> 28438

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 ccagatcgtc gacgtcttcg tacgcgtcac cggcggtgag gtcggcgcg gtagttccct 120  
 cgccccgaag atcgggtcccc tcggcctctc cccaagaag atcggagaag atatcgccaa 180  
 ggaaaccgcc aaggactgga agggcctccg cgtcacctgc aagctcaccg tgcagaaccg 240  
 tcaggccaag gtcacggtgg tc 262

<210> 28439  
 <211> 260  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941049H1

<400> 28439

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ctatttggct cctccataat tcaaatgagc ttcgacaatg gtggttgggg tgctattcta 180  
gctaacttgt acgctaggaa ggcggacatc atcttaagag gatactctgg ttggaattca 240  
aggcgggctt tggaggtttt 260

<210> 28440  
<211> 249  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700941054H1

<400> 28440

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tgtttgacga gatgtgtaag ttgggtgttg aactcaatgt gatggggttt acctgtttga 120  
ttcagtgcct gggaagggca atggaatttg atgatttggt gagagttttt gacatttcgg 180  
ttgagagagg aattaagcca gatgataggc tatgtggttg cttgctatct gttgtgtctc 240  
tgtctcagg 249

<210> 28441  
<211> 243  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700941060H1

<400> 28441

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ctaggtggag agacctgtgg aaccaagccc ttgtagaca tggaagcaca caagacgacg 180  
tagctagtgt tggtgctggt tttctgtctc gttttgaaga gcttgatcca ttaaaacatc 240  
ctc 243

<210> 28442  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700941066H1

<400> 28442

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 ttccaccttg ttgaaaagtt atggccttgt gcatgaagaa tgcattgccaa aaatgaggct 120  
 tttgtcattg gtggatctta gctctgatgg atctggccaa attccatattg aacttattag 180  
 ggacacactt cagatcagtg atgatgaggt ggaactatgg gtagtttagag gattaactgc 240  
 taacttaatt gactg 255

<210> 28443

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: 700941071H1

<400> 28443

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 tattgctcat ttccagaact caagcctgat gaacgaagac aaacgttgcc gtcctattct 120  
 cttccataca gatggcccaa atgctgggtga tccggagcct tttcccatgg gtgccaatat 180  
 tagactgaga cctggaaaat ctgcactgc tggcaatgag gagaatcgaa gccaaaggag 240  
 cccttca 247

<210> 28444

<211> 241

<212> DNA

<213> Glycine max

<223> Clone ID: 700941078H1

<400> 28444

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 tggaccctga gtataataga ttgttcaatg agggcatggt gtgcactgct agggttgtgt 120  
 ccaaggctgt gatcactggg tacaaagatg ggttcaacca gattaagtcc ttgggtgatg 180  
 ttggaggtgg cattggaggg tctctttctg agattgttag ggcttatcct cacatcaatg 240  
 c 241

<210> 28445

<211> 257  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941124H1

<400> 28445

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 ccaccgtcac cacccaagcc tccgccgcaa tttccggcc atgtacctcg aaatcgaggt 120  
 ttttgaccgg ctcttccggt aaacttaacc gggaagtgc tatgcggcca atgggggtgcc 180  
 ctcttctgc ctctttcaag gttgaagcca agaagggaga gtggttacct ggcttggcct 240  
 ccccaactta cctcaat 257

<210> 28446  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941138H1

<400> 28446

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 agtaggattg tgtcttcctt catcacacta aacaagttaa aagaagagca tcaactgaact 120  
 aacaaagcaa ccctatgtcg aagggtggtt gtgtcaccgg agccagcggc gccatcggat 180  
 catgggtggt cctactctc ctccagcgtg gttacaccgt ccatgccacc gtccaagata 240  
 tcaaggatga aaatg 255

<210> 28447  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941165H1

<400> 28447

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 tcattccctt tttttcgatc aaaatcaaatt cgtgcggaaa attccatgtc tggaccattg 180

gttgatcaaa aggatgggat gctagtgttg aaaaacaagg ccctagggtg gcatgagcag 240  
 ctgcaatggt gg 252

<210> 28448  
 <211> 250  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700941167H1  
 <400> 28448

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 gttaatggaa tctgcgttcg agtttatcaa gcaatacggg ataactacag caagcaatta 180  
 cccttatgaa gcaaaagatg gaacttgtga tgcataaag gtgaatgaac ctgcagtgtc 240  
 aattgatggc 250

<210> 28449  
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 <223> Clone ID: 700941171H1  
 <400> 28449

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 cttcttgggc agtgaatcat gggattcaaa ggtctggcga aacagcatct gttttgtcca 180  
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 taattttgtc 250

<210> 28450  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700941193H1  
 <400> 28450

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 cccagccgcc accgatgcgc tcgatcgctc ctcccttact ccgcacttcc ctttctatct 180  
 cctctccatt tccaccggag caggaaatca aggtcagaaa atcgctgctg ctacctacct 240  
 caagaacctc att 253

<210> 28451  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941201H1

<400> 28451

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 atctgttgat gaggacatga ccaagagcaa gggcaaggat ccacttgaag gacttggagg 180  
 acctatgaca agggctagag aaaggaaatc caaggaagct cttcaacaag tgttgtccat 240  
 actatttgaa tacaagccca agtttcaagg 270

<210> 28452  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941213H1

<400> 28452

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 ggtgggtctg agtcataat caccacgaaa tctggtgaaa gagcatcaac caaaacta 180  
 gggtcccgtg aatTTTTTgcg ttattatcgt caaaaacctc ggccatcact agcaaatatg 240  
 gctatcactg ctgcgttggc ttca 264

<210> 28453  
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 <212> DNA

<213> Glycine max

<223> Clone ID: 700941216H1

<400> 28453

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ggccattaac ggtttacttc cccatagaga tgtacattaa gcagtcaaag atgcaaaagt 120  
tttccttcac ttggacatgg ctcaagatat tgagctgggc ttgcttgatc gtttctatta 180  
tctcagctgc tggctccatc caaggcctcg ctcaagatct caagaaatat cagcccttca 240  
aagcccagca ataattaaat ttgttc 266

<210> 28454

<211> 267

<212> DNA

<213> Glycine max

<223> Clone ID: 700941217H1

<400> 28454

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gccaaagccgc ggccacgctg aatcttctca gagcttttgc caccgggtggg tatgctgcta 180  
tgcagagggt tactcagtgg aatttgact tcacggatca cagcgaacag ggagataggt 240  
accgagagct tgctaaccga gttgatg 267

<210> 28455

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: 700941221H1

<400> 28455

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tcattttctc tcgaagcaag aaaaatgttc atcgagagtt tcaagggtga gagtcctaac 120  
gtgaagtaca cagagactga gattcagtcc gtgtacaact atgaaaccac tgaacttggt 180  
cacgagaaca agaatggcac ttatcagtgg gttgtcaagc caaaaactgt caaatatgaa 240



tttaaaacca acacccatgt cccta

265

<210> 28456  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700941223H1

<400> 28456

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gttgacgcta gtcgccgcat tggttgtaac ctccgtcgtg gtcagtcctc cggcgctcctc 120  
accagctctg tctccaaagc gcacccccgt cgccacacct cagaagtctc cctcgccggc 180  
gatttctccc tccgccgtgt cgccgtcgtc ctctcctccc gtcgccgtgg tgaacactcc 240  
gtctccgtca ccaaactcag tcgac 265

<210> 28457  
<211> 263  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700941227H1

<400> 28457

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tttgacaatg tcttaattac tgatgacatc gaatatgcc aagcaactggc tgaagaaaca 180  
tggggcaagc acaaggatgt tgagaagaca gcatttgaag aggctgagaa gaagagggaa 240  
gaggaggaat caaaggatga ccc 263

<210> 28458  
<211> 261  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700941249H1

<400> 28458

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gtcaaaacta cccatccacc caggcaacga tggacgtagg aaccgccgac gatcattccc 120  
 cggaagccgc catatcgcgg tggaaattcg cggtgtcgcg gcagtaccag cacatgctgg 180  
 acaaaacgac gccgcacgtg ctccgacggt ggatcggggtg cctgggtgggt gccgccgtgt 240  
 acgtgctccg cgtgtacttg g 261

<210> 28459  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700941252H1  
 <400> 28459

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 actcacacaa tgggataaat tttgctgca ggctacaaca gtttcagaaa atgcagcacc 120  
 tgcacgtgt gcacttgaaa acacaggcac agtcacggaa aaattcctcc acattatcaa 180  
 aggaggcaca gagacaggaa gaaccaaagc gacctcagtc gagtgagggtt aatgttattc 240  
 catcaagatc atctaaaag 259

<210> 28460  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700941255H1  
 <400> 28460

gagcgagcga gcgagcagtt tcaaagagag gatttgggat tgggaaggcg agggattgcg 60  
 ctgcgtctct tcctcttctc tttcgattca tcctcatte ataattctcc aatccaacaa 120  
 cctcagcctc acactcacac atacacacat ctgaacgcgt atcgtccttc ccatggcttc 180  
 aaagcgcac ctcaaggagc tcaaggactt gcagaaagac ccaccaactt cttgcagcgc 240  
 tgggtccagta gctgagga 258

<210> 28461  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941314H1

<400> 28461

aaattaaatt agtggttaag gttgttggag gagctctaac aagagatgga gacacaaaat 60  
 tggttcgaaa gagtgaagcc tttagcagct gtggtatcaa tgcagtttgg atatgcagct 120  
 atggatgttc tatccaaggc tgcaatgaac aaagggatga gcaactatgt gtttgtcggt 180  
 tategtcatg ctgttgcatt ctttgttatg gcccctttgg catggttttt tgacaagaaa 240  
 gtaaggccaa agatgacatt at 262

<210> 28462

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: 700941316H1

<400> 28462

caccaagcag gcctcctccg gaagcccatg gtacggccca gaccgcgtca agtacttggg 60  
 cccattctct ggcgagcccc cgctctacct cactggcgag ttcccaggtg actacggctg 120  
 ggacactgct gggctttcgg ccgaccaga aaccttcgcc agaaaccgtg agctcgaagt 180  
 gatccactcc aggtgggcca tgctcggggc cttgggctgc gtcttccccg aactgttgct 240  
 ccgcaacggg gtcaagtttg gagaa 265

<210> 28463

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: 700941322H1

<400> 28463

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 gactttgcaa catgacaaga agaactatga tgatgaagat aattggctctg tcgcctctc 120  
 tgctatgtct atgcgcacag ctagatctaa ggtaactcat ggttcagccc ctacatttag 180  
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 agctcttcga gaagagaaaa accag 265

<210> 28464  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941326H1

<400> 28464

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 tttcggatga tatcacctaa aggctctcgc atgtctccac aactttcttgc agtggtgcaa 120  
 gctttttgagg caacattggc agagaggctg aaaaatctta tgcctaaaag caaggatgaa 180  
 atcctcacct tgtcttggat gacttttagct atgaagtcac tttgtgaaag tcacaatgac 240  
 atacggaccc ttatgactgc cc 262

<210> 28465  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941331H1

<400> 28465

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 agcattcaac aatatttaca atggcactgg catttttggc atccaagtta caacaggctc 120  
 agattttgta tcaaaagcca ttgatatagc tgctaagagc attcttggcg ttgctactcc 180  
 tggacaagtt gaccaggcac agcttaatcg agccaaacag gctaccaaatt ctgcaatttt 240  
 gatgaatttg gaatcaagaa tggc 264

<210> 28466  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941332H1

<400> 28466

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 catggcgaca ccagcgacga cgaagcgaaa accggtgttc gtgaaggtgg atcagttaaa 120

acctggcacc aacggccaca cactgacggt gaaggtggtc agttccaagc cggatgaagac 180  
 ggtgagcacc cgcgggcggtc gaccgacggt gctagccgcg cgcccgtcgc gcattgccga 240  
 gtgcctcgtc ggcgacgaaa ccgga 266

<210> 28467  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700941342H1  
 <400> 28467

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 accagtatac aaggggtgtac tatcagatgg tgctgtgatt gctgttaagc agctctcctc 120  
 caaatcaaag caagggaatc gcgaattcat caatgaaata ggcatgatat ctgctttgca 180  
 gcatccaaat cttgtgaaac tttatggctg ttgcattgaa ggaaaccagt tgctgctagt 240  
 atatgagtac atggagaaca 260

<210> 28468  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700941359H1  
 <400> 28468

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 cttcaattcc aggtgagcca atggacatca tgactgtctt acagcttgtg ctgagaaaat 180  
 ctctggccta tgggtgtctt gcacgaggtc ttcattgaagg tgccaagggtg atcgagaagc 240  
 atgctgcaca gctctgtgtt 260

<210> 28469  
 <211> 243  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700941503H1

<400> 28469

gttcatgaca ctaatttggc caggatctct catctagaca aagattgatg atatgttttt 60  
 aactttctta atttatgtta tgttctatct gagagattcc tgtacaagtc aaaatctata 120  
 taatagatgt gtgaagaata atctaagtga gaatgattat tctgctatgt acgctttctg 180  
 ttcatgatgg agtgaaacaa atgatgggta gcttattctt atgctaccga tagccattgt 240  
 tga 243

<210> 28470

<211> 241

<212> DNA

<213> Glycine max

<223> Clone ID: 700941534H1

<400> 28470

caaagggcac tttctcagc taactgcaag ccttcagcta gttgatgtga ttaaggggtg 60  
 tcttgatga taattctcag tttcattcct tttgtttagt ttataacctg tttctcattt 120  
 catttatagg ttgatgtagt tgtgtgatga ttttatgggt ttcttgatgt ggaaatagtg 180  
 tggatgtgt taattaattc attgtttgta cttgtgaaat agtgatgtta attagccttg 240  
 t 241

<210> 28471

<211> 214

<212> DNA

<213> Glycine max

<223> Clone ID: 700941550H1

<400> 28471

agggattggt ctttataatt agatagtcag caaaatgtca gactcgttgc tactttttca 60  
 tccttttttt ttataatata aataggtgcc ctattgacgg aatgatgtct gattccctta 120  
 cgcggttttag ctattgtacg taaaggggat gaagtctcgg aaatgaattt tgtgattctg 180  
 aattttgtat caaatctgaa tatectttct aact 214

<210> 28472

<211> 237

<212> DNA

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|       |       |
|-------|-------|
| <400> | 28472 |
|-------|-------|

<210> 28473

<212> DNA

<400> 28473

<210> 28474

<212> DNA

<400> 28474

<210> 28475

<211> 270  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941681H1

<400> 28475

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 acgatctcaa agacgagaag aaccctcgac ctctcgacga ggatgacatc gccctcctca 120  
 agacctacgg tttgggacct tactccacaa gcataaaaaa ggcggagaag gaaatcaaag 180  
 atatggccaa gaaagtgaat gacttatgtg gtataaagga gtctgatact ggttttagctg 240  
 caccaagcca gtgggatctt gtttctgata 270

<210> 28476  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941683H1

<400> 28476

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 gactggtcgt cttagaggac aagctgctgc aactgctgcc aaggctgata aggcttaaag 120  
 agaacgttgt taggggttatt atatttgatt gcaagttttt cagttttgtt tttctttttt 180  
 ctgatagttt gtttggttaa ctatttgggc accttcttca gaaccatttt cttcccaaca 240  
 tatggagttt tcaatagacg gtc 263

<210> 28477  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941775H1

<400> 28477

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 tcaactcata tatacaaata tatataacat ggcttctacc ttctctcgaa gcctagcact 120  
 tgtaagcttt tacattgtcg tttgtgctgc cggttaacttg aaccaagact ttcagcttac 180





gggaatgtta caataaagtt atgggatctt ggagggcaac ctagggttccg cagcatgtgg 60  
 gaacgttact gtcgtgccgt ttctgctatt gtttatgttg ttgatgctgc cgatccagat 120  
 aaccttagca tatcaagaag tgagcttcat gatttgctga gcaaaccatc attgggtggc 180  
 atccctctgt tggatttggg gaacaagatt gacaaagcgg gggctctgtc taaacaagca 240  
 ttgactga 248

<210> 28481  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700941994H1

<400> 28481

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 gatgactggg atgaggatgc acccatggaa attttagatg aagaagcaga gaaacctgaa 120  
 ggatggttgg atgacgagcc agaggaaatt gatgaccag aggcgacaaa acccgaagac 180  
 tgggatgatg aggaggatgg aatggggaaa gcccacaaaga ttgaaaacc gaagtgtgag 240  
 gcagcc 246

<210> 28482  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942040H1

<400> 28482

cgaagaagtc ccattcattg cactgatagc agcgatgggg atcgatctta aggctggggg 60  
 taagagcaaa aagacaaaaa gaacagcacc aaagtccaat gacatctacc tcaaattact 120  
 tgtcaagctt tatcgattcc ttgtcgaagg acagacagca atttcaatgc tgtgatactc 180  
 aagcgcttgt tcatgagcaa ggtaacaag cctccaattt ctttgtcaag gttaattaag 240  
 tatacgaagg ggaaggagga ta 262

<210> 28483  
 <211> 259  
 <212> DNA

<213> Glycine max

<223> Clone ID: 700942053H1

<400> 28483

gggcctcaat ggagtcccag atgttgctga gtgctctttc gtgcaatcca ctgttactga 60  
acttccttc tttgcttcca aggtgaggct tgggacgggt ggtgtggagg aagttctggg 120  
cttggggcac ctctcagatt tgagcaacaa ggcctcgaaa gccttaagcc tgaactcaaa 180  
tcatcaattg agaagggaat caaatttgcc aaccagtaat tgaacatgtt atcacatata 240  
tgtctggtag gttactgga 259

<210> 28484

<211> 251

<212> DNA

<213> Glycine max

<223> Clone ID: 700942094H1

<400> 28484

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aggtcttatt ggagtttata atgattggtg tgaacctttc tcaacatata ctcgcaccta 120  
tgacctgata catgggcaag catggaatca cttgtaaagg atccagcctc tggcagaaac 180  
agatgtaccc ttcttgattt gatggtggaa ctcgatcgaa ttttacgccc agaaggcact 240  
gttgtggtga g 251

<210> 28485

<211> 271

<212> DNA

<213> Glycine max

<223> Clone ID: 700942117H1

<400> 28485

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tcggtttgcc tggcgggggc tctgaagtgg aaactccaag ggccactggg aagagagggt 120  
tctctgagac cgttgatctg aagcttaata ttcagaccaa ggaagatctg aatgagaatc 180  
tgaagaatgt ctcaaaggag aagactctcc ttaaagatcc tgctaagccg cgggctaagg 240

ctcaagtggg ttggttgcca ccagtgagat c

271

<210> 28486  
<211> 257  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942141H1

<400> 28486

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gatgaatcag acaagtccaa atctgaagtg aatgatgaag atgatgccag tggagaggag 120  
gaccaccaag aggacgagga tgatgaggag gaagaggacg atgaagatga tgactgagat 180  
tgatgtccaa aaccttggtt atgatatttt gtttatgagg gaggctatta tatattctga 240  
ctgtgcatac taggcta 257

<210> 28487  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942169H1

<400> 28487

gcaacaagtt ggtgcctttc atcagctatc cgaggagtgc catgtggcaa tttatgcctc 60  
cggccgccgt ggatacctca caggatcatg tactccgtcc accggttgcc taagttggca 120  
ttgtacaatt atttgggctt ccattttggc tcaaaagttg taatcatttt cctatagctt 180  
tttagttatt atcttctaag tgttccaagt aactggattc agtggtggct ttgactgtat 240  
ttggcatctg atactatt 258

<210> 28488  
<211> 251  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942173H1

<400> 28488

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attgcggtatt tttatTTTTga tccttatagt cgtcctgctg aaaaaaggca aggtgcatgg 120  
atggatgaag tctttgctcg tagtcgtgtg ttatcgcgcg atggtacctc agcaagattg 180  
cctgttgctc acatgggtgtg caatcaaact cctccagtag gaaacaagcc aagtctaattg 240  
acattccgtg a 251

<210> 28489  
<211> 125  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942186H1

<400> 28489

cttccaagtc caccagcaga ggattaattt tgtcccttgt atctctatta attttcgttt 60  
aacattactc ggactcccat cactactttt tcttttactt ttaaaaaata aaaagaatct 120  
tctgc 125

<210> 28490  
<211> 48  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: 700942317H1

<400> 28490

taagatacag gaaatatgat ttgnncgacg tgaatncttt ttgttact 48

<210> 28491  
<211> 237  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942592H1

<400> 28491

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ggaggtgtga ttgtggattc tggaaccgcg ataactcggg tgcggactca ggcctacaac 120  
tcgggtgcgcg acgctttcaa gaggaagact tcgaacctgc gtcccgcgga ggggggtgcg 180  
cttttcgaca cgtgctacga cctgtcgtct ctgcagagcg tgcgggtgcc gacggtg 237

<210> 28492  
 <211> 82  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: 700942594H1

<400> 28492

ctttcccaag tnttcctctc tgcaacaccc ttcatttgnc acacaancac acnnaacgcg 60  
 ncctgtgctg gctaacaact tg 82

<210> 28493  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942614H1

<400> 28493

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 cgaaggggca gtggtataca cgggtgcgga caacggcggt gcgtataata cagttacgga 120  
 ttccgggtca agttcaggat ccggaggaga aacaatgctc gcagatgggt catatcttagc 180  
 tggtttagcc atgggagact cccctgaaag aacagtttcc atcgcgtttg tttactctgc 240  
 tagctttttg cttattctct tcttgcttta gctgcaccag cat 283

<210> 28494  
 <211> 286  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942616H1

<400> 28494

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 caatggccac tggtgaggtt gtgtcagcca aggttgccct cccagaggac acaaaagagg 120  
 catcattgaa ggttgacgag gagaagaaca cagaagaagt tggtgagact ccaacaccag 180  
 aaactgtggt cactgagcaa accaaggagg aaagtactga ggccccacga cctgcagctt 240

cagaagacaa gccctcggtt gaagttcaga ctaaagaggt ggcaga

286

<210> 28495  
<211> 285  
<212> DNA  
<213> Glycine max

<223> . Clone ID: 700942618H1

<400> 28495

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ttggcaagtg tcggagcaga tcaacccgct gaagttgttt atgatgcccc agtgcattctg 120  
aatccaggat catgttttga cactgaaaca cagtctatac tttcttgtga tggtttacat 180  
cagcacacaa ggagactgtg cccctgtgca taatgttagc tgggtaagtc ttggttactt 240  
ttgacattgt tgaattttgt gtacattatg tcaaacatca aaata 285

<210> 28496  
<211> 284  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942623H1

<400> 28496

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atttcaggca acctacctgt tgctccaata gcaggacatg gtgtacctca gatgatgccc 120  
tgtaggccag acattcctgc tgttaatagt tggagacca cttgaagttg atttgagtct 180  
tcttattagt agtagtggtg ttgctggtgg atcaacatgc aagggttaaat tgtgtctcaa 240  
agttagattc gcctgtgtag tacatacaac ttacccatga agaa 284

<210> 28497  
<211> 280  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942629H1

<400> 28497

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gggaaaggat gattagcatt ctgagccagg aacggcttct gggagcttcg ttgggagtgg 120  
 tattaacggg ggtggttgtg tttgagcaac gcagatacat ctacgcttct atttccgatt 180  
 cccaatctca gggttaaagaa cctatatattg ggaagaagtc gcgttctgaa ttttcacatt 240  
 tatggaacaa aactgtggat cagacatttg gacctttgat 280

<210> 28498  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942654H1

<400> 28498

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 ggccgccttt tgcacagtca tcgtcgccat ttccctcgcc gctgagcgcc tccttcatta 120  
 tggcggaag tttctcaaag ccaaggacca gaagccgctc tacgaagctc tccagaagat 180  
 caaagaagag ctgatgcttt tggggttcat ttccctgctt ttgacgggta cacaaaacgg 240  
 cattacaaa atctgcgttc gaccctcttt gacgctccac 280

<210> 28499  
 <211> 277  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942668H1

<400> 28499

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 ctcagtttgc agagaaaatc tgaatcatgt cgtggcaagc gtatgtcgac gatcaccttc 120  
 tgtgtgacat cgaaggtaac cacctcactc acgctgctat catcggccaa gacggcagcg 180  
 tttgggctca gagtaccgac ttccctcagt tcaaacctga ggagataact gccatcatga 240  
 atgactttaa tgagcctgga tcacttgctc caactgg 277

<210> 28500  
 <211> 277  
 <212> DNA  
 <213> Glycine max



<223> Clone ID: 700942670H1

<400> 28500

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tctattggta gcccatcgtc gttaaattttg aggcattcagt agatggggag ttttatttag 120  
ggtagccctc tgtaaattac caataactaa tgcaatacca atatataat ccagattagg 180  
aagaaatttc aaatcaattt gagtcgtgct ggtaaatacc aagggttgat cacacttcac 240  
tttattgggg tgacacttgt ttggataatt tacaacg 277

<210> 28501

<211> 277

<212> DNA

<213> Glycine max

<223> Clone ID: 700942672H1

<400> 28501

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atgaccatcg gcggtcaacc tgccggccgc atcgtgatgg agctctacgc cgacgtgact 120  
ccgagcaccg ccgagaactt ccgcgcgctc tgcaccgcg agaagggcg cgggcggagc 180  
ggcaagcccc tccactacaa aggcctgtcc ttccaccgcg tgatcccgaa cttcatgtgc 240  
cagggcggcg acttcaccgc cggaaacggc accggag 277

<210> 28502

<211> 273

<212> DNA

<213> Glycine max

<223> Clone ID: 700942689H1

<400> 28502

gcgacgaaga aacgccactt gtgggcgata tttcgggcct tgaagggcg aagagccacc 60  
acaccagga tggtcatatc ctgagcttgg cttttctctt ggtctttctc gccttcggtg 120  
ccgctcagaa tttgcagagc actctcaaca ctgaggatga cttgggtacc acctcacttg 180  
ggatcctgta tttgtctttc acattcttct ccgtggttgc ttctttggtg gtgcgagttc 240  
tcggctccaa gaacgctttg cttattggga cta 273

<210> 28503  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942701H1

<400> 28503

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 ctgggaagaa tcaccatctt ccaatgcttt ggttttttga ttcttctctg aggctttgtg 120  
 ctattcctct atctgtggaa ccatgtggat cactgtgact aacaaggagg acaacagcag 180  
 ctatggaatg ctgaaatata acaacctctc tgctctaaag tatatgggtt tagtcagtgc 240  
 cctctgtgct tgctatgctc ttc 263

<210> 28504  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942733H1

<400> 28504

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 tttaaggacc caatgtacat catcgacatg tttcacatct gtttggactg tttccggggc 180  
 acacaattag tgttgagaac actccagacc tctgtaaagc tgtggaagtt agtctaatta 240  
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<210> 28505  
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<223> Clone ID: 700942734H1

<400> 28505

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aagaacaacg cagtttcccc cacaacgttg tgttcgacga ggacgagatt cctagcggcg 180  
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 acagcggtac tttgg 255

<210> 28506  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700942740H1  
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 attgggttaa ttgggggttct atctgtgtgc agtttgtgtt ttgctgtcta ttgtcctttc 180  
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<210> 28507  
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 <212> DNA  
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 <223> Clone ID: 700942758H1  
 <400> 28507

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 cccgccgct tccgcaagtg gaggatTTTT ctccagaatg gtggcagctg gtgacgacac 180  
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<210> 28508  
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 <213> Glycine max  
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<400> 28508

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 ctcgctccttg tgcaggggtt tgatccttagg agtttgtttg agacgaggaa gcggtcgcca 180  
 tcgatgttta tatctaaatt ctcggttcg acggtgttgg ccaaggtgga ggcggtggcg 240  
 aagaaactga actttagggt g 261

<210> 28509

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700942762H1

<400> 28509

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 ccctgcaagg gaagcgttgt ggagatgtgt gctgatgagt atgtgcagaa gatgaccttt 180  
 gatagctact tgtacaagac agtgggtgctt ggcaatccat tggaggatct gaaattggcc 240  
 attaacacca ttgggagctt ag 262

<210> 28510

<211> 258

<212> DNA

<213> Glycine max

<223> Clone ID: 700942775H1

<400> 28510

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 cctgtggggcg aggacatgtt ccattggcaa gcaaccatca ttgggtccaaa tgacagtccc 180  
 tatgctggtg gtgttttctt tgtgaccatc catttccctc ccgattatcc cttcaaacct 240  
 cccaaggtag cattcagg 258

<210> 28511

<211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942779H1

<400> 28511

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 tttctcgcct taaactacaa ccttagttct tcattattgt gattgtttcc ataatggagt 180  
 tcagatcaaa atcatgcagg aatgagagtc tgcagattga aaactactgt ggaggaagag 240  
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<210> 28512  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942785H1

<400> 28512

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 ctgggtctgt gaacacacac ttaatacctt gagatatgca gaccgagtta aaagtctatc 180  
 caagagtgga aatcctagaa aggaccaggc cccaaatcct ataccaccac cagcaattaa 240  
 agaggtttca t 251

<210> 28513  
 <211> 253  
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 <213> Glycine max

<223> Clone ID: 700942789H1

<400> 28513

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 aatctttcct tcatcacagg gatcatcact tctaataagt gattccagtt actatgatgg 120  
 agggctaaag aagcctcaag agaaattttc atgaccaagc cagcattgga ccctttgtcc 180

tactatgatt ttccaatggg tgttgcacag tctggtttta acttacctgt tagtcagtat 240  
cagacaagcc tta 253

<210> 28514  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700942795H1

<400> 28514

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tggtaaagca ggatagtttt gtggactatg aacgtggcag aatttaaggc tagattaatt 180  
tgccaacata atgaaaatcc ttctggaagg gattcgtttg atgcagagga tgggtatgtt 240  
gtagaccgtg gcttagatt 259

<210> 28515  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942839H1

<400> 28515

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aggcacgtaa atcaacaggt gggctgaatt gtattttcag gtaggaaggc cactttgtag 180  
gttgtgatgc ctcgtgatgg tttatgaatc actgatgtat actctacact tgtgttgggt 240  
tagttataac acattgtc 258

<210> 28516  
<211> 277  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700942903H1

<400> 28516

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 tctttagtct ctaggtgccca tattgatcag atctaagtat ctttctgaca aacctctgca 180  
 gggtttcatg tttgttatgg tacaagtcca gtactgaatt aatttatcaa cagctatgat 240  
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<210> 28517  
 <211> 53  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942944H1

<400> 28517

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<210> 28518  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942945H1

<400> 28518

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 tgtcaaccaa gaccccatct tcaagcaata cagcttgccc caacatgagt gtggataccc 180  
 tggtagtgtg tttaaccctt tgaactttgc acctactttg gaggccaagg agaaggaact 240  
 tgccaatggg agattggcta tgttggc 267

<210> 28519  
 <211> 283  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943004H1

<400> 28519

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gtggtttatg cttctgtac cgctgtttct tcggatcgcc gtcgcttacc gacccggcga 120  
catcgttccc atgagctgca tgggtcaata ccaactcctcg cgaaccgtgt ggcaggacct 180  
cattggccgc cactgccccca tcttcgccgt gaatcgcgag gtgttgatgc ccatacccaa 240  
gccacgggt tacactggtg ctgatgctta taaaatattg ttt 283

<210> 28520  
<211> 278  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700943010H1  
<400> 28520

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aacataaaca acacaagagt gacacaagtg tttgaattgg ggtcagtgtc actgggagat 180  
gcaaagggga agaactggac cctaggggtgc ttatacctca ttggacactg cttgtcgtgg 240  
tctggttggc ttgtgttgca agcaccggtt ctcaagaa 278

<210> 28521  
<211> 278  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700943011H1  
<400> 28521

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tctcccatct ccactaaac aaccatggac ctggatcctc gccaatagca aaaccttgct 120  
gtaaatgata atgacatcca caacattggt ctgtcatatc ttatacataa ttgctacaaa 180  
gaatcggtag aatcattcat tgcttgacag ggagcaaagc agccgacaga ttatttggag 240  
gacatggata aaaggaaaag aatttttcac tttgcact 278

<210> 28522  
<211> 276  
<212> DNA  
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<223> Clone ID: 700943012H1

<400> 28522

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gggagatttt gggttggcaa agctgttgga ccacagggat tctcatgtga caacagcagt 180  
gagaggcact gtggggcaca tagccctga gtatctctct acaggccaat cttctgagaa 240  
aacagatgtg tttgggtttg gcattcttct tcttga 276

<210> 28523

<211> 285

<212> DNA

<213> Glycine max

<223> Clone ID: 700943017H1

<400> 28523

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tcctttctgg cactaaatac cagagagcct tctttatgga atccgaaacc tctaaattta 180  
aatgatcttc acgttcgaga attgaccgtc agagaaaacc ttgccttctc agcatgagtc 240  
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<210> 28524

<211> 282

<212> DNA

<213> Glycine max

<223> Clone ID: 700943018H1

<400> 28524

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accgaatgga ggccaaaacc cttaaacaga aactttggtc atgttttgag tcagggttcct 180  
gttccagcag aaagcacctg aatctcattg attgacatca atggaagagt ggcataattc 240  
atgttccac ttgcagattg gagagctttg cttgttgccct ta 282

<210> 28525  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943021H1

<400> 28525

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 gacgacggca aggactacca ggagccggcg ccggcgccgc tggttgaccc gacggagttt 180  
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 tacatcacgc tcttaaccgt tatgggagtc gccggggc 278

<210> 28526  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943025H1

<400> 28526

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 agtgatgatg gagagtaccc tttaaagtgc accacctcag ggaaccaagt gaatgtaaca 180  
 actgggggtg ttgatactac agtgtccaat actatctaca gtgataacca gcttgcagtg 240  
 tatcaggtag ataaggtact tcttccaatg aagctttt 278

<210> 28527  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943027H1

<400> 28527

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gcaaggctgg acatgcttat tttaaaatgg tgtttagata ctttctaaat cctaagggca 180  
 tgcaaattcc agtgtcacag aagctatttt ggcattggata ttgcgatgta aatgggtgtag 240  
 aatgtagatt tggtgaattt tggtctgtga acca 274

<210> 28528  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700943047H1  
 <400> 28528

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 gttgtgcatc aactttttgtg gcttacgttt acacttggtta aaaacatgca taagcacttc 120  
 aagaaatcat ttgaaatgg aaaataatgt atatatagat aatttgcacg tagcattagc 180  
 acttcgagaa agatgcaatg gaataagttg gcacaatggg gtgtctttgt ggagcaagat 240  
 tagtaatggt tggttaacttt agtggctcat gtgt 274

<210> 28529  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700943066H1  
 <400> 28529

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 tgaagctcaa ctataaggac tattggcgag tcaagggttc cgtgacaaat ttcaactaca 180  
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 aagttttcag ctttgattac aagcctttac ttcccta 277

<210> 28530  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700943081H1

<400> 28530

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 tacgttgatc gaggacagca tagcttgga accattacct tgctacttgc tcttaagatc 180  
 gaatatcctg agaatgttca cttgatacgg ggaaaccacg aagctgctga cataaatgca 240  
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<210> 28531

<211> 266

<212> DNA

<213> Glycine max

<223> Clone ID: 700943093H1

<400> 28531

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 aagttcgaat cttttccctg atggatgagc ctatcttaga tgccatttgt gagagactaa 180  
 aacaaaagac gtacatcaaa ggaagtaaag ttttgagtca ggggtggtctt gtagagaaga 240  
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<210> 28532

<211> 270

<212> DNA

<213> Glycine max

<223> Clone ID: 700943095H1

<400> 28532

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 ttttgatctc ggtggtggga cttttgatgt ctctcttctc accatcgagg agggatattt 180  
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<210> 28533

<211> 251  
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<223> Clone ID: 700943108H1

<400> 28533

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 tcctgctttg gtttcagtgg attcctcgag gcgcagaatg tcagggccca ttttaaatac 180  
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<210> 28534  
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<223> Clone ID: 700943113H1

<400> 28534

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 aaaggagaga aagttgttca ggagaagaaa gtacttgaag ttgttgtgga gaaggggaatg 180  
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 ggggatatt 249

<210> 28535  
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<223> Clone ID: 700943127H1

<400> 28535

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 aggctagtgc taacattcca aattgggact catcttcac ctcacatga tgatatccca 180



caaaatatgc cctttcttat gttggaaatt tcaataacct aagttgtgtt tacggaatgc 60  
aatatg 66

<210> 28539  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700943156H1  
  
<400> 28539

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agtagagttg caagcaactg atcctactga gatgggtctt gatgtgttca aaagccgtgc 120  
caactaaaat gattatataa aatagtaggc tttctggtgg gagcagcacc cctgaagcct 180  
tagttactca tatggaaaat atcctagttt gtgggatggt caacttgggt agttatggtc 240  
ccaaa 245

<210> 28540  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700943157H1  
  
<400> 28540

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atttaattct tatggagttg atggggggacc cgcagcaaaa gcactcagac cgaagtttga 180  
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atTTTT 246

<210> 28541  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700943164H1  
  
<400> 28541

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 gacaatttgt tcatatcaag caatcaacta acaaagtctc acttggtcga aaagaggaac 180  
 ttgttgatg taacatattt aaagcatcaa cgcattgagg gtttctctcc tgcacttaag 240  
 atactag 247

<210> 28542  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943178H1

<400> 28542

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 gatctctcct tttacaaggg aaaagtcctt ctgattgtca atgttgcttc tcaatgcggc 180  
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 ct 242

<210> 28543  
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 <212> DNA  
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<223> Clone ID: 700943181H1

<400> 28543

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<210> 28544  
 <211> 241  
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<223> Clone ID: 700943186H1

<400> 28544



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tttcaatcta aaggatcttg atttacattt tgagacatgg aggggtgtttg tttctggaca 180  
aattgctacc agtatcggtt ttttgcattc caagaagtgc ttgattggcg agttttcatc 240  
c 241

<210> 28545  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700943188H1

<400> 28545

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tatectagtc ctccccaga atattcaacc tgcttggtg atctgtacag tgttgcttgg 180  
atggaagaca gtgacagaca caatttacga acagaaactc tgcacatcaaca atataaattg 240  
g 241

<210> 28546  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700943189H1

<400> 28546

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aaaaaggatg aagaagacaa gcctcatcct caggaggagg tcatcgccac cgagtttcaa 180  
aaagtcactg tctcagacca aggagagaac aagcacagcc tcttagaaaa gtttcaccga 240  
t 241

<210> 28547  
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<212> DNA

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<223> Clone ID: 700943190H1

<400> 28547

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 cggacgaaga ggggtgggtg tgggggcaga tcaaggcgga ggcgcgccgc gacgccgagt 180  
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<210> 28548

<211> 273

<212> DNA

<213> Glycine max

<223> Clone ID: 700943221H1

<400> 28548

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 taatgaggag caagagtgca tattgaagag caaggaagaa aggggagaag ataagggtct 180  
 aaattgggaa gatgccaaaa agatgccaat aacttcaagg gtcattcagg agactctaag 240  
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<210> 28549

<211> 270

<212> DNA

<213> Glycine max

<223> Clone ID: 700943231H1

<400> 28549

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 cgggagggtc agcatgagga agaccgtcac caagcaggcc tcctccgaa gcccatggta 180  
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<213> Glycine max

<223> Clone ID: 700943301H1

<400> 28550

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agtgagttgc tccatggagg aaaaacctta ttctgtgaag gaaagcagct ctagcatgtt 180  
ggggatgggg gcatctctga tggcagctgc cagcgtgca gccatgtcag gcccagccat 240  
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<223> Clone ID: 700943304H1

<400> 28551

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ctgacaaggg agttagccga ggacggatac tccggcgtgg aagttagggt tacgccgatg 180  
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aga 243

<210> 28552  
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<223> Clone ID: 700943305H1

<400> 28552

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gcaacaatct gtggcaccga cagcatccaa gtttccgttg agcttttggg aagccacggt 180  
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 cg 242

<210> 28553  
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 <223> Clone ID: 700943306H1  
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 tgtggggaga attggaaacc accccaatgt gatgccacta agggcttatt actattccaa 180  
 agatgagaaa cttctggttt acaactacat gccaggtggc agcttggttt tcttggtgca 240  
 t 241

<210> 28554  
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 <223> Clone ID: 700943309H1  
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 cgactctggg aagtcaacta ccactgggtca cttgatctac aagcttgag gtattgacaa 180  
 gcgtgtgatt gagaggttcg agaaggaggc tgccgagatg aacaagagg cattcaagta 240  
 t 241

<210> 28555  
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 <212> DNA  
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 <223> Clone ID: 700943311H1

<400> 28555  
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 gcgacataca catccattga taatttagaa agatccacaa aatctattgc tccagttcta 180  
 gaacccgatc ccaatgatgt ggtttccaca ccaattttat ctactctgca aaccgatg 238

<210> 28556  
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 <213> Glycine max

<223> Clone ID: 700943313H1

<400> 28556  
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 cgcgagacgg ccaggaattc ggtccccacg atgtcgaact cgacctttcc caaggaactc 180  
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<210> 28557  
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<223> Clone ID: 700943315H1

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 agataccaat gcccatcaca atgctcgagg agatgtagcc agaccaata ccacaagccc 180  
 tgcagtgttt tctgtcagaa gtgctgcagg aaatgcctgt gtgtgcccc ggggtattat 240

<210> 28558  
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 <213> Glycine max

<223> Clone ID: 700943323H1

<400> 28558

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 gatgaggggtt tattttattg gcaggggttac atgagtttgt gatgatgtgt tattgtgttt 120  
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<210> 28559

<211> 234

<212> DNA

<213> Glycine max

<223> Clone ID: 700943328H1

<400> 28559

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 aatgggtttt tctgggctgg aaaacctgtt gttagtcaag tgaaagagtc tacgcattca 180  
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<210> 28560

<211> 234

<212> DNA

<213> Glycine max

<223> Clone ID: 700943329H1

<400> 28560

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 atactgcaaa cagaaggggt tgtactatcc cattgcaaag actctagcag agaaagcggg 180  
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<210> 28561

<211> 238

<212> DNA

<213> Glycine max

<223> Clone ID: 700943331H1

<400> 28561

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 ttcagtccgt gtacaactat gaaaccactg aacttggtca cgagaacaat aatggcactt 180  
 atcagtgggt tgtcaagccc aaaactgtca aatatgaatt taaaaccaac acccatgt 238

<210> 28562  
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 <223> Clone ID: 700943335H1  
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 ccagcgttta aaggttctgc tcccatcaat ctttcggatc gtctaaacca agtgcttcga 180  
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<210> 28563  
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 <213> Glycine max  
 <223> Clone ID: 700943336H1  
 <400> 28563

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 aaagatctga ggtgtctttc aggagacagg gttcatcagg gcttggttgg gacgacaagt 180  
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<210> 28564  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700943339H1  
 <400> 28564

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 tactatgatg gtctttgaaa gcattgatta ggtgccttcg tgaagcaatt gtagtctaca 180  
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<210> 28565  
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 <223> Clone ID: 700943346H1  
 <400> 28565

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 gttcacagaa aatagcgcgc tgaatagtgt gcatcggttc agacttcaga gcatatgaaa 180  
 tactgcaaat tttccctcgt ctgtgacgct aaggaaaaat cgacctagat ttatt 235

<210> 28566  
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 <223> Clone ID: 700943351H1  
 <400> 28566

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 gttaccttca tgaagaggtt tatcaagaat ttgactccca agctcgatgc agagcaacag 180  
 gagttgttta agaagcacat cgagggagca actaaatacc tgctctctaa gattaaag 238

<210> 28567  
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 <223> Clone ID: 700943358H1  
 <400> 28567



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 tagaggggtcg aagattctgc cattgggtgg cgctgaatac tcaaagaagg tgatggaaaa 180  
 ctgcgtggca cacatgaagt ctggtgggac ttacggtgat gctgaagccg ca 232

<210> 28568  
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<223> Clone ID: 700943360H1

<400> 28568

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 gaccatcacg atgctgggga agaaaccaag cttactcctc aagcttctga cagtttgaaa 180  
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<210> 28569  
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<223> Clone ID: 700943364H1

<400> 28569

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 agaagggaga aaaaggaata ggagatggca cagttagtta tggaatggat gatggtgatg 180  
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<210> 28570  
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<223> Clone ID: 700943374H1

<400> 28570

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 gaccatttac tttgccttgc catccccgcc tccacaccaa ccactcaaga tgtctctcct 180  
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<210> 28571  
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<223> Clone ID: 700943377H1

<400> 28571

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 tgtgccaaga gaggggggtga aagaccatac aaagaagcca acacactgtt cataagaaca 180  
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<210> 28572  
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 <213> Glycine max

<223> Clone ID: 700943379H1

<400> 28572

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 atgccttaat atagatataa gactttgttt tgtgc 155

<210> 28573  
 <211> 237  
 <212> DNA  
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<223> Clone ID: 700943381H1

<400> 28573

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 gcaatcttca ttgccatctt tggattgggc ttattctcgt tacttattgg aaacatgcag 180  
 aaatatctgc aatctacaac tgtttagagtg gaggagatga gagtgaagag acaggac 237

<210> 28574  
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<223> Clone ID: 700943382H1

<400> 28574

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 actcaaaact gggttttact cctcttcgtg cccaaacgca gaagccacag ttcgatccac 180  
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<210> 28575  
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 <213> Glycine max

<223> Clone ID: 700943383H1

<400> 28575

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<210> 28576  
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<223> Clone ID: 700943384H1

<400> 28576

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 cattcttcgt ttggatcttg ctggccgtga tctgactgac tctttgatga agatcctcac 180  
 tgagagaggg tacatgttca ccacctctgc cgagcgggaa attgttcgtg 230

<210> 28580  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943394H1

<400> 28580

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 aaactagatt gacctcttca gtgacacttg gtagtgtcca aagaagggca tcacaagggg 180  
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<210> 28581  
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 <212> DNA  
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<223> Clone ID: 700943405H1

<400> 28581

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 ccgagcactg tatatataat ggaagttttt caattccgag agcttggtttc ttattcacta 180  
 agcagagatg ggtagcaga agtttctgtc gcgtaattct agtgagcccc gtcttaaagt 240  
 ctgtgaaagg tctta 255

<210> 28582  
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<223> Clone ID: 700943412H1

<400> 28582

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 tctgagccat caacttcacc acatcgtgct agtccttaca ctccaatata accagcagct 180  
 gctgaacaac ctcttgtttt cgattgtgaa gtaccctcac ctgcaccttc tatgggtgct 240  
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<210> 28583  
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<223> Clone ID: 700943417H1

<400> 28583

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 tagtctattc agatggcatt tctcatgatt cgggtcatga agctggaagt ggtcatcaca 180  
 atattacaga gtcgtatgaa caaatcaatg agactactga acatcatagt tcagaggata 240  
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<210> 28584  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943433H1

<400> 28584

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 tcgaggtggg gctggactgg acatgtttct gccaaattat aaattgggaa aaacacttgg 180  
 gattggatct tttggcaagg tcaaaattgc agaacatgta ttgactggcc ataaggttgc 240  
 gatcaagatt ctta 254

<210> 28585  
 <211> 252  
 <212> DNA

<213> Glycine max

<223> Clone ID: 700943450H1

<400> 28585

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 gctagctcga tttagggccg ctgatgattc tcgtcaagag gcatatgcta agttactggc 180  
 tttgaaaaaa caattgcatg agaagagcaa aaatttctgg gaatacagag atgctgcaaa 240  
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<210> 28586

<211> 253

<212> DNA

<213> Glycine max

<223> Clone ID: 700943458H1

<400> 28586

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 ccctccaacc ctccctccaa acgactcttt cgcacctca tgcggttgc cacagacaca 180  
 caggtttctca ctgctgtctg cttcgacagg gttgccaggc tcctcttcgg ctgctccgcc 240  
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<210> 28587

<211> 253

<212> DNA

<213> Glycine max

<223> Clone ID: 700943460H1

<400> 28587

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 ttgcattgat ggcaactgtc aaccgcgtca gatcggaat ctctctcttc accaaatcca 180  
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253

<210> 28588  
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<212> DNA  
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<223> Clone ID: 700943467H1

<400> 28588

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gattaagtcc ttggttgatg ttggagggtg cattggaggg tctctttctg agattgttag 180  
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taagtatgat 250

<210> 28589  
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<212> DNA  
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<223> Clone ID: 700943475H1

<400> 28589

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cgaagatgac ggcggcgccg ctgcggaagt gggtcgagga gaagaacccc tccgcagtgt 180  
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<210> 28590  
<211> 250  
<212> DNA  
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<223> Clone ID: 700943481H1

<400> 28590

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 gtcttagggt atgaagttat tgcagattcg agtgttcagt tgttcataga ttgttttatt 180  
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<210> 28591  
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 <223> Clone ID: 700943485H1  
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 atccagcaac ttgcaagtgt aacataaact tcggtgtaat gaataaaacg ataatgcttc 180  
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<210> 28592  
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 <212> DNA  
 <213> Glycine max  
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 attgtggatt ccgaagatct accactcaac atttcaagag aaatgttgca acagaacaag 180  
 atcttgaagg tcatcagaaa gaacttggtt aagaagtgcc ttgagctctt ctttgaaatt 240  
 gcagagaaca 250

<210> 28593  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943491H1

<400> 28593

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 ctttccgatg tatatgctgt tggatgatgtt gctactttcc ctttgaaatt atacggtgaa 180  
 ttgagaagag ttgaacatgt tgatcattct cgcaaatacag ctgaacaggc tgtgaaggcc 240  
 atcaaggca 249

<210> 28594

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: 700943519H1

<400> 28594

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 tcgagtttgg ctgcctaact ctgatttccc tggctcttgc atggctcggg catttgagaa 180  
 tttttgcctt aaggactttg gattgattgc tgttccagat atctcatatc accgccttac 240  
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<210> 28595

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700943521H1

<400> 28595

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 attcatgttt gattggtctt atcatgtacg tgttgaaatt atattttatg atgaatttaa 180  
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 attgtaacct agtactagct t 261

<210> 28596  
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<223> Clone ID: 700943528H1

<400> 28596

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 ttgaccaatt tatacataaa aaatgctagc cttgaaaaag ctggagctac tgttaaagaa 180  
 atggagaaca gaacctcgag gaaaactcga gttgcatatt cctctcttct tagcttgcac 240  
 acaaacatgg ggaacaaaga tg 262

<210> 28597  
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 <213> Glycine max

<223> Clone ID: 700943531H1

<400> 28597

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 tgggcagtgg gtgtcaagtt tcgaggctgc tttagacaca gttaatgggt tctcattcca 180  
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<210> 28598  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943538H1

<400> 28598

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 ggaagtggag gtggcggtgg cagtggcggt ggttcacctt ctgcacctgt gaagcaatac 120

ttgcaggaat tctcgaagct ttttcagtac tatctggata aatccactcc ccatgccctc 180  
 tacagatgga ttgggacttt cgtgattgca tccatctacg ttctgcgtgt tgtttatttg 240  
 cagggggtttt acattgtc 258

<210> 28599  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700943577H1  
 <400> 28599

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 ctcggaacacg ggtggactcg ctcccggtct gggtttccct atcaatcttc ccaatggccg 180  
 caatttcttt cacagatcca ctggccgctt gtccgatgga cgcctcgtca tcgacctact 240  
 ctgccaaagt ttgaat 256

<210> 28600  
 <211> 260  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700943579H1  
 <400> 28600

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 agatgccgat ttctagaatt gccattggaa atccttcaga gtttggccaa gcggatgcgc 120  
 ttaaggctgc tcttgctgag ttcattctca tgctaattt tgtctttgca ggagaaggct 180  
 ctggcatggc atataacaaa ctacagaca atgggttcggc aacaccagct ggggtggtgg 240  
 cagcatccct gtctcatgca 260

<210> 28601  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700943590H1

<400> 28601

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 cactggcaaa accataaccc tagaggtcga aagctctgac accattgaca acgtcaaggc 180  
 caagatccag gacaaggagg gaatcccccc agaccagcaa cgtctcatct tcgccggaaa 240  
 gcaacttgag gacgg 255

<210> 28602

<211> 255

<212> DNA

<213> Glycine max

<223> Clone ID: 700943592H1

<400> 28602

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 taaaggaagg agtaggaacc tttggtgatc ttactttcac ggacaattct agctggataa 180  
 gaagcagaaa attccggctt ggggttaagg tggcttgtgg ttattgtgag gagattcgta 240  
 ttcgtgaggg aaaaa 255

<210> 28603

<211> 274

<212> DNA

<213> Glycine max

<223> Clone ID: 700943602H1

<400> 28603

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 tttggcgaac ttttcgttgt cttataatta ttttactaaa gtgggaccat tgtgtaagat 180  
 gctgattcaa aggggtgttc ttgatgtgag gaagaactgc attttcgggc ttccggatca 240  
 gagatcgggtg agggagtgc tggcattctt tttg 274

<210> 28604

<211> 273  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943611H1

<400> 28604

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 aatcagtggg agtacttatg attatagcag tgacatctgg agtttgggta tggtagtgct 180  
 tgagtgtgcc ataggacggg ttccttatat acagtccgaa gatcagcaaa gctggcctag 240  
 tttttatgag cttctggcag caattgtgga aag 273

<210> 28605  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943618H1

<400> 28605

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 atcgacgctt acaccgaggc gattacgctg tgccctaattg ttccggttta ttggacgaat 180  
 cgcgcgctgt gccatctcaa gcgcaatgat tgggagagag tagaggaaga ttctcggaag 240  
 gcaattcagt tggacagcaa ttcagttaag gcc 273

<210> 28606  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943623H1

<400> 28606

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 tgatttctct gaagataagg gctctttagg gtttatggag ctattgggtg tgcaagacta 180

caatcatctc cttgatttcc ctctatcgtc acacgtgtca gtgcctcaaa cctctgcggt 240  
 taaggaacca cctgagacta agaaagagtg ttc 273

<210> 28607  
 <211> 276  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943624H1

<400> 28607

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 cacacatctt cgacatttct gcgacacgca acaaaaacat cttcaagatc tcgaattgct 180  
 caagtgttc aaatctgaga ttcaattcga gcttgccctc aatcactttc agaatgctcg 240  
 aagtgattcc tccttagggg actttgtggt ggaccc 276

<210> 28608  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943626H1

<400> 28608

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 gttacagccg aagaaggcac agccttagcc ctaggggccg atatagagga tgtgataggg 180  
 atttgccaac aagtcttctg gttcgaaacc tcaacagaga ttgcaggcca gaagatctgc 240  
 atggtccatt tggccaattt ggtcctctta ag 272

<210> 28609  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943627H1

<400> 28609

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 caccatggcc atttcaccag cacctgcagc agcaccaaaa gccacagcaa aaactcctcc 180  
 taccctcaaag gcaacagcac catcaccaaa accattagtt cccacaatac ctcagtctcc 240  
 agactctcct gactcgggcc ccgacgacat cacc 274

<210> 28610  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943632H1

<400> 28610

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 ctacaacagg tatggtggtg gggccaatga gctcagtga gggtagagca cgggtgttgg 180  
 attgggtgct gagatcattg gaacctttgt tttggtttac actgtgttct ctgcaactga 240  
 tccaagagg aatgctagag attctcatg 269

<210> 28611  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943637H1

<400> 28611

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 gtgtctcggt atttcgttgt gggatatatgt tctacttggg gctttaagga tgtatcacia 180  
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 ctttacctgt atatgcaact tcaaaattag c 271

<210> 28612  
 <211> 272  
 <212> DNA



<213> Glycine max

<223> Clone ID: 700943639H1

<400> 28612

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 tgctctgagc aacctgtgac tgacattggc cagtgcagac cccacagggc atcagataaa 180  
 cgtgcagaca tatggtaaca gtgtgaacat atcaactggg gtgggtgaatg ccacactcac 240  
 aggcattgtg tacactgata agacacttgc ca 272

<210> 28613

<211> 270

<212> DNA

<213> Glycine max

<223> Clone ID: 700943650H1

<400> 28613

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 ctctctcttc cccatccttg gctggcaagg ccgtgaagct gggcccatca gccccgaag 120  
 tcgggagggc cagcatgagg aagaccgtca ccaagcaggc ctctccgga agcccatggc 180  
 acggcccaga ccgcgtcaag tacttggggc cattctctgg cgagcccccg tcctacctca 240  
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<210> 28614

<211> 270

<212> DNA

<213> Glycine max

<223> Clone ID: 700943651H1

<400> 28614

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 ggttttgcca tttcaaagct gggaaagaac attcaagtac tttcaagttc ctttgtcaat 120  
 aagcaagacc aatacactgt ggaaggagtg cagaatcttg gagacaaagc agtgatgtgt 180  
 cataggctaa atttcagaac tgcagtatct tactgccatg aagtcagtga aacaacagct 240

ttcatgggttc cattggtggc tggatgatga

270

<210> 28615  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943663H1

<400> 28615

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gggtgctcat, ggtggtggc ccttctccg gaaggatccc accaagggtg ataggagtgg 120

tgcttacatt gtgagacagg ctgctaagag cattgtggca agtggactag ccagaagggtg 180

cattgtgcaa gtgtcttatg ccattggtgt gcccagacct ttgtctgtct ttgttgacac 240

ctatggcacc gggaagatcc atga 264

<210> 28616  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943669H1

<400> 28616

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tttcaaaaag aatagatgca tgaagtctgg tgacctctga tctgattccc tcttgatgct 120

aaacaacaga agagaacgaa actatcaatt atttatttca ttaagtaaaa agaattagt 180

gaaaatggga ggttgctggt gttctgccag aaaacctcat cagcaagggg caccagtata 240

ttactattgc ccaccaactt ttgaagag 268

<210> 28617  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700943675H1

<400> 28617

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gattcaaagg gatgacacta catttgacgc atatgtgggtt ggaaaagagg atgctcctgg 120  
aattgttggtg attcaggagt ggtgggggtgt ggattacgaa attaagaacc atgccgtgaa 180  
gatttctcag cttggtagtg ggttttaaagc tcttattcca gatttataca gaggaaaggt 240  
tggtctggat gttgctgaag ctcagc 266

<210> 28618  
<211> 267  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700943686H1  
<400> 28618

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aacataccaa tattgcgga tctacgtaca actaccacca agaggatgga agcaattgaa 120  
agagagatac gagattcaat tgagggtatc ataaaaaac gagagaaagc catggagaat 180  
ggtgaaacct ctaatgaaga tttattaagc atacttttgg aatcaaatca caaggaaatc 240  
cagggacatg gaaacagtag ggctggt 267

<210> 28619  
<211> 265  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700943690H1  
<400> 28619

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caaacatcac agctggtaat aaacagcaga ttcaggctgt gattgaggct aatctaattg 120  
ctcctttggt caatctgctt caaaatgctg agtttgatat caagaaagaa gctgcttggg 180  
ctatctcaaa tgctacatcc ggtggttctc atgaacaaat caagttccta gtaagtcaag 240  
ggtgtatcaa acccttgtgt gatct 265

<210> 28620  
<211> 265  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700943692H1

<400> 28620

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 gccgccatca acagcagcga cgttgccaac ctctcccaag aagataccct cgagcgcgac 180  
 accctcgtcc accgctgcta catcgccctc ggccagctcc agttcgtcat ctccgagatc 240  
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<210> 28621

<211> 251

<212> DNA

<213> Glycine max

<223> Clone ID: 700943704H1

<400> 28621

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 gacaaggaag gcattcctcc ggatcagcag cgtttgattt tcgccggaaa gcagcttgaa 180  
 gatggaagga ccctggccga ttacaacatc cagaaggaat caacccttca tctcgtcctc 240  
 aggcttcgtg g 251

<210> 28622

<211> 231

<212> DNA

<213> Glycine max

<223> Clone ID: 700943776H1

<400> 28622

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 aagtcaacta aacttgtgtc gtgctgcagt tactggtcaa aaccctccac caccagatga 180  
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<210> 28623

<211> 271  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700943804H1

<400> 28623

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ccatgccaat ttcctccgca aaaataacaa gaatcccga gattacagge ctgacattac 120  
tcatcagtc cttttatcta ttttgatag ccactaaat aaagctggga gattgcggtc 180  
ggtatacata aggactgaaa aagggtgttct tatagagggtt aagccctttg ttcgtattcc 240  
aagaacattc aaacgctttg ctggtgtcat g 271

<210> 28624  
<211> 267  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700943808H1

<400> 28624

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ggcactgggt gtggttgaag tggggcccat ggctgaggct gcggtgactt gcaaccaaac 180  
acagttgact ccttgtcttc cggcaattaa ttcaggttct gcaccttoga gtgcttggtg 240  
ccagaagctg aaggagcaaa agccatg 267

<210> 28625  
<211> 266  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700943810H1

<400> 28625

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ctagttgagc ttctcggtat tgcagatata aagaaaggag ctgatgtagc tggaggtaga 120  
ggtttctatc tcaaaggaga tgggtgttcgc cttaatcaag ctctaataaa ctttgggctt 180

gatttttttg ataaaagga gtatacttta ttgcatactc ctttcttcat gagaaaagat 240  
ataatgtcaa agtgtgtctca actagc 266

<210> 28626  
<211> 212  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700943814H1  
  
<400> 28626

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cattttctat ccagcaattt gaatatttgc attcgccaac cagatggatc ctattcaagt 120  
gatttggttg agagcccaaa gggcaatttg gatcagaagc tagagaaaga ttaaccattt 180  
attagacata ttgttcttag cccacaataa at 212

<210> 28627  
<211> 267  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700943816H1  
  
<400> 28627

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catcgacctc tccaaggtaa ctgctttgaa tgaggcaaat ccaggaagtg ttaagtcagt 180  
tttcaaagct tgggaagagc gtctggattc ttctggggtt cacttggaaa gcaatgaggg 240  
tgatcctgag ttacttgtct tcattcc 267

<210> 28628  
<211> 265  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700943825H1  
  
<400> 28628

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tacattttta gtttggaaca tagatattgc aactaccttt gtataaatct atttctgaag 120  
aagcaattac aactttcaag ggatgatagc attttgtggc ataaggatta aggaggcata 180  
aaggaccaat tgctttggaa tattcactca tgacaaggca caaggatcatg cgtgtatgcc 240  
aacacatagt aatgatgtgt gtttt 265

<210> 28629  
<211> 206  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700943862H1  
<400> 28629

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accatcctac gacgtcgctt caggagaaga tcccagggtc tgcaagcacg ttcgagacaa 120  
cgtccatggc aacattttatc tcgattccct cagtttgaag ttcattgaca ctgagcagtt 180  
tcagaggctt cgcgagttga aacaac 206

<210> 28630  
<211> 177  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700943867H1  
<400> 28630

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cgttgccaga aaagggttaag cttttgcaag cagtgtatgaa agctgggtcct ttgcttcaga 120  
cactgcttct tgcaggacca cttcctcaat ggagacaccc tccacccctt cttgagt 177

<210> 28631  
<211> 176  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700943870H1  
<400> 28631

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acaactcaac caactgaagc agcaggagta gtgatctctt catcctctct tcatcaagac 120  
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<400> 28632

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aacaagccag tcccttcaag catttggtgt ggcaggatca aagctcattc accagcaaca 120  
agggtgtttgt gttggcaagg ctgcaccaca tatagaacta aagataagtg cagatgcttc 180  
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aactctcaca a 251

<210> 28633  
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<400> 28633

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ttggtcttct tctgctgtgc catttccttt accttcgctt ctgaccctga cacacttcaa 180  
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gagtca 246

<210> 28634  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700943908H1  
  
<400> 28634



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 tgatctatct tttgctgatt tgagcaagga aattgctcta ctaattatgg atgaagatga 180  
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<210> 28635  
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<223> Clone ID: 700943919H1

<400> 28635

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 gggccaccac atgggccccca tgggtcagat gggcccaatg gttcagagag gtccaatgaa 180  
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<223> Clone ID: 700943983H1

<400> 28636

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 tatggactgg taaatttggg ttacaaagc taccccaaga tgagataaac aaatataaga 180  
 aattttatcg catgatgata tttcaaggga cctcagtgtt acagaagcct gttcctgaa 239

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<223> Clone ID: 700943988H1

<400> 28637

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gaccgtatga gcaaagaaat cactgcactt gctcctagca gcatgaagat taaggttgtg 180  
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<210> 28638

<211> 263

<212> DNA

<213> Glycine max

<223> Clone ID: 700944010H1

<400> 28638

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cttcaaagaa ctcatcagat ccattggtaa agcttgttca tgaactgcag agagatttgg 180  
aattagtata tggtgggcaa gtttgcctct cttgggaaat cctttgttgg caacacaaga 240  
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<210> 28639

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700944013H1

<400> 28639

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tcttgttggc ttggaaggta ttcatgccac ataacatata tttgctacga gggaatcacg 180  
aatcaaaata ctgtacatca gtttatggtt ttgagaaaga agtaatggta aagtatggcg 240  
ataaaggtaa gcatgtgtac c 261

<210> 28640

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<223> Clone ID: 700944018H1

<400> 28640

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 tatcatattg gatgatgaag ttgtcaagga cattgatccc agaacatgga caatgcatgg 180  
 gtttgcattg aagcccatct ctccatcttc aagttccact gaattatcag tagccgaaaa 240  
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<223> Clone ID: 700944019H1

<400> 28641

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 gccgaagctt gccaaaggaga agaaacctaa ggctccgaag gaaaagaagc cgaaacaggc 180  
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 cgagaaagga ggatcgagtc catatg 266

<210> 28642  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700944021H1

<400> 28642

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 aaatgttaaa ggcttgttct tgtggtatc 149

<210> 28643  
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 <212> DNA  
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<223> Clone ID: 700944028H1

<400> 28643

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 gggagggtca gcatgaggaa gaccgtcacc aagcaggcct cctccggaag cccatggtac 180  
 ggcccagacc gcgtcaagta cttggggcca ttctctggcg agcccccgtc ctacctcact 240  
 ggcgagttcc caggtgacta 260

<210> 28644  
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<223> Clone ID: 700944037H1

<400> 28644

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 atgtgaagct gaaggactct aagacccttc tcttcggtga gaagccccgtc accgtttttg 180  
 gattcaggaa ccctgaggaa attccatggg gtgagggttg tgctgattat gttgttgagt 240  
 caactggcgt attcactga 259

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<223> Clone ID: 700944045H1

<400> 28645

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gcaaagtgtc ttcattggagt cattttattta gacgatagtg atacaatgta aatgggaaaa 180  
 attgtccgct tcaagtcaag cgtttttgttt tttccccact atacaatggg tgtgcgttta 240  
 tgttttaaaag tcttaca 257

<210> 28646  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700944051H1  
 <400> 28646

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 aacacagtcc gtgcttcagc aacactccca agttatcagg caacagcaac cacaacagac 120  
 ttcgatcatt catcaacaac aaacaccgat gactcaacag tcaatattac ctcaacaaca 180  
 acaaaacaac aacaattagt taagagagtt gagtaagatc agaatggcag acttgatgaa 240  
 aagaatcctc caaatgattg aggc 264

<210> 28647  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700944059H1  
 <400> 28647

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 ttatcactcc tattaaaccc gggttcacgcc attgcccgat tgggagggta cagggccccg 180  
 gagcaagaac agaacaagag gctatctcag caggctgatg tgtatagttt cggagtattg 240  
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 <223> Clone ID: 700944060H1

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 agaaaatgag agtagtagta gggtcagtgt ggctgtgcct ctttctgttg gctgtcgggg 180  
 agtcggaggg agcggatttg gcggcgaagt gcaacctgct gggttcagaaa gtgctgccgt 240  
 gcctgaactt cgcgacg 257

<210> 28649  
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 <212> DNA  
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<223> Clone ID: 700944065H1

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 tatttgtcaa gcatatgaag atatgcagac acagaaccaa aatctgttga accaggtgat 180  
 cgagagggat gactataata ttaagcttgt atcagatagt gtgaagacaa aacaggcgca 240  
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<210> 28650  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700944066H1

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 ctgcgctcct caaattcgac aaagtactg attttctgtg aagtacgaat ttcatacataa 180  
 ttgctgcatt gaccctgggtc atcaaagcct cctgggtattt tcgacagata atcctcactt 240  
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<210> 28651

<211> 259  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700944068H1

<400> 28651

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gatgctgac tccttgatct gaaggaatcc aaaggaaagt atgctccctt cttgagtgc 180  
atatgcaaat tctataggga ctttcatgta aaatctgacc gtgtccatgg aattttcttc 240  
catgatcctg tcagttttg 259

<210> 28652  
<211> 152  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700944070H1

<400> 28652

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tttatgcata aattaaaata agtattttat ac 152

<210> 28653  
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<223> Clone ID: 700944072H1

<400> 28653

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aggacacacc gtttcatagt ttttaagatt gaggagcagc agaagcaggt cattgtggag 180  
aagcttggtg agccagccca aggctatgaa gatttctactg ccagccttcc tgctgatgag 240  
tgccgttatg ctgttta 257

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 <212> DNA  
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 <223> Clone ID: 700944075H1  
  
 <400> 28654  
  
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 gccactgcat tgctgcagaa agccgcccaa atgggtgcag ctgcaacaaa tgctcttttt 180  
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 cccatacttt ctccaaatca acccaaaaaa gatgaaaagg attttaacta tgcaaagcaa 180  
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agataatctt atacagaaga ttatccgaag tgagttcaaa gaatgcactg tttgcaccat 180  
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<223> Clone ID: 700944083H1

<400> 28657

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 ggcctaagta tcttcaagca caggatgcta tagactatgg aattgctgac aaaataattg 180  
 attccagttc aagggatgtt gcatttgaga agaggaatta tgatgaaatg cttgctcaat 240  
 caagagctat gaggagacaa g 261

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<223> Clone ID: 700944087H1

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 aactgcaaa tgtccactcg cctgctggat ataccattgt cgttggtgca agatccttga 180  
 ctttcacgaa aattggggaa aagaagaaat tccaagttat tgtgcaggca agcagtgtaa 240  
 ctacgcggag aaagtatc 258

<210> 28659  
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 <213> Glycine max

<223> Clone ID: 700944091H1

<400> 28659

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gtcagtggag taccatattc agtctcaagc ctctaatacca caagtagctt acttgtcaat 180  
atcaatgccca cctctatgcc atggagtcac acaaaatgaa ctttcttctt acaccattga 240  
aatggtaaag ggtct 255

<210> 28660

<211> 251

<212> DNA

<213> Glycine max

<223> Clone ID: 700944122H1

<400> 28660

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ttttttcttt tcccttttct ttactctgta ttgtatcaat gcttgaaaat ggggttggtc 180  
caaaaatgtc atatataattt ggcttgctaa tgggtattgt aaatctctga acttgaagtg 240  
atgcacgggt t 251

<210> 28661

<211> 251

<212> DNA

<213> Glycine max

<223> Clone ID: 700944123H1

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attgaacttc aaacatttga tatgcccacg gcttgctcga aatcttcaat aattcttctg 180  
tactttacac tttttttcac tttctttatc acagggtccg ctgttgaact tttgtgcac 240  
ctcaattggt t 251

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<223> Clone ID: 700944126H1

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ttaagtcttc tgatatgtgt actactatta ctgcagacag aaggggttcc tgtgggaatc 180  
acttttgttg aaaatgcagt ggcaaaagg gctgtttgtt tggatgggag tcttccagct 240  
taccacttcc 250

<210> 28663  
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<223> Clone ID: 700944154H1

<400> 28663

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gggatcaaac ttgtgggtcag ggatcagata atgaggccat gaacaacatc atttcacact 180  
atctttatta tcttgatctc ttgggtgttg gcagagaaga ggcagggcct aatgaagttc 240  
tctcctgtg 249

<210> 28664  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700944159H1

<400> 28664

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ggccaaacac tccattcca agttcattgc gagatcttct aaagcctggc cctgcaagtg 180

ttgaaatcga tgatcaccct atgcaaattg aagaaacaca gtacccgaaa accttcttct 240  
ataaagaa 248

<210> 28665  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700944218H1

<400> 28665

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atagggccca atgccacaat ggaaggctat ggattcaagg ttcgagacct tggaaaattt 180  
ttgcgtcttg cttgggctca agaacaagg tacttgaag agttttgctg tgccaatgtg 240  
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<210> 28666  
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<223> Clone ID: 700944223H1

<400> 28666

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ttgccgaggt tggagaattt cacgtactct tataactact tctgcagtga gtcaccaacg 180  
tgtctcaagt tgaaggataa ggatgatacc aagaattgta ttccttatag gccattgcaa 240  
aggtcactgg atgagt 256

<210> 28667  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700944226H1

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tccgggaaag tccgcggaga cgtcggaggc cgcggcgttg gcggtggcga acgaccagct 180  
cttgctctac agaggattga agaaggccaa gaaggaaaga ggttgacagg cgaaagagcg 240  
catcagcaaa atg 253

<210> 28668  
<211> 254  
<212> DNA  
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<223> Clone ID: 700944251H1  
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cttacagatg gccgtgatgt tttggatggc tcaagtgtgg ggtttgtgga aacccttgaa 180  
aatgatcttg caaacttgcg cgcaaaaggt gtcgatgcta ggatagcatc aggtggaggt 240  
cgtatgaatg tcac 254

<210> 28669  
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<212> DNA  
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acaacatgca aagaacaaca tcagatctta tagtcaagct aggaaattgt cctctgcatc 180  
ctctgctgcg gtttccaaca aggtcaagag aaccaaagaa gagcatatgg ggaaagtcac 240  
cgaat 245

<210> 28670  
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<213> Glycine max

<223> Clone ID: 700944287H1

<400> 28670

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tcgactactt gggcaaccca agcctgatcc acgcccagag catcctcgcc atctgggcca 180
cacaagttat cctaattgggt gccgttgaag gttaccgtat tgctggtggc cccctcggtg 240
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<210> 28671

<211> 259

<212> DNA

<213> Glycine max

<223> Clone ID: 700944351H1

<400> 28671

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cctgtggctg aggacatgtt tcaactggca gccacaatca tgggacctgc tgatagccca 180
tatgcagggt gtgttttctt agtttcaatt cattttctc ctgactatcc cttcaagcca 240
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<210> 28672

<211> 246

<212> DNA

<213> Glycine max

<223> Clone ID: 700944374H1

<400> 28672

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tgactggaac acgcggatga aaatagctgc tggggcagca aagggattgg aatatctaca 180
tgacaaagct aatcctctg tcatataccg agacttaaag tgctccaaca ttttgcttgg 240

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246

<210> 28673  
<211> 253  
<212> DNA  
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<223> Clone ID: 700944381H1

<400> 28673

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gaaagccttt tcaatctacg gcgacatcgt tgaatcgaag gttatcaacg accgtgagac 180  
tggaagggtcc agaggattcg gatttgtgac cttcgctca gagcagtcaa tgaaagatgc 240  
gatcgagga atg 253

<210> 28674  
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<223> Clone ID: 700944411H1

<400> 28674

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tggcaaggga gtcatatgac cccttgtgga tcaaaggagg tggtcactgc aacttagagc 180  
tttaccgccga ttacatccgc catctttgca aatttatcca agaaatggag agcatgacaa 240  
ctgagaagcg cctcaaaaag attc 264

<210> 28675  
<211> 264  
<212> DNA  
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<223> Clone ID: 700944412H1

<400> 28675

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gaagatagga gagctagact gcaggctcag tttgctcaaa tgcgacctgt tggaatgcca 120  
ccatctgtcg gtccctgtgt gccaatgtat cccccagggtg gtccagggtat tgggtcaacaa 180  
atatTTTTatg cccaaggccc tcctgctatc attccttccc agcctggatt tgggtatcaa 240  
caacaacttg ttcctgggtat gagg 264

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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700944418H1  
  
<400> 28676

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agtttattgt gtct 74

<210> 28677  
<211> 264  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700944427H1  
  
<400> 28677

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agggtgcagaa attgatgagc gtgtggacct tgatgaggaa aattatatgg aagagatgga 180  
tgatgatgtt gaagaacaaa tagacgatga tggagtggat ggagttgaag aagaaaatgc 240  
tgaaggtagt tttgaagaag atga 264

<210> 28678  
<211> 272  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700944433H1  
  
<400> 28678

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<223> Clone ID: 700944482H1

<400> 28681

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 gtctgcttcg ccacacccca cttgttcatt cccactatgc ttccattcgt ctcagctcaa 180  
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<210> 28682

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: 700944483H1

<400> 28682

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 gaatcaagat atttccactt tgtcgttccc tatgaatttt attttttttt gcatcaaadc 180  
 acaaaaaagt taaatgataa gaacttcttg ctgtggcgac agcaaataca gtcagcgatc 240  
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<210> 28683

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700944484H1

<400> 28683

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 actatacacc aaatgttggtc ttagcggcca ttatcatcac tgctgtgatt ggtctaatag 180  
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<223> Clone ID: 700944489H1

<400> 28684

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 tgaagaaggt tattggtca agggccccca acacaaagat ttcctctgga agcttcaaga 180  
 ttgttgctgt agaagagaag aaagagattg aagagaccca gcagaccgac aaggacagat 240  
 ggaagggctc tgcctatga 259

<210> 28685  
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<223> Clone ID: 700944491H1

<400> 28685

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 gagatgatga tgccctttaa attgttctcg cttctggagt ccgggggaagt agatagtggg 180  
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 actcaaatta atatataa 258

<210> 28686  
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 <212> DNA  
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<223> Clone ID: 700944492H1

<400> 28686

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gaaggagggg gatccattat tcatattgtc gatcatatgg ttctagagcc ctggagtgtg 180  
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<210> 28687  
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<210> 28688  
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 <223> Clone ID: 700944507H1  
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 cgttgccggc ggtttatatg ccattctttc atcctcaacc tctgctagct ctgagatgga 180  
 agtgccgttt ggcagcgcac ggcgtgagag caaagaacgt gacgatggtg gctccgggtc 240  
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<210> 28689  
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 <400> 28689

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aaagttgagg acaatgtgga tgggaactcc ccaaatagaa aactatctca ttgttcattc 180  
tgtgggcatc caggcagcaa aaaagatcat atgaaatttc cctgtgaata ttgtgtcaca 240  
aaggatgatg aaggttgccca gagaaaacca gag 273

<210> 28690  
<211> 269  
<212> DNA  
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<223> Clone ID: 700944531H1

<400> 28690

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ggaaagagga gggtccgccg gtggagaagg tagaggagga gccggccccg gatatgaatg 180  
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<210> 28691  
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<223> Clone ID: 700944544H1

<400> 28691

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gaggtggcaa ggacaagcac catgatgaat ctgacaaagg aattttttca cagcttgctc 180  
atggggtagc tgggtgcagca catggtggac atgggtaccc acctgggggt taccaccac 240  
cacctggggc atacctccg cacca 265

<210> 28692  
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<223> Clone ID: 700944545H1

<400> 28692

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tggtttgcca gcaatgggta aggtgggaag agtgagttgc tccatggagg aaaagccttc 180  
ttctgtgaag gaaagcagct caagcatgtt ggggatgggg gcatctttga tggcagcggc 240  
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<210> 28693

<211> 256

<212> DNA

<213> Glycine max

<223> Clone ID: 700944613H1

<400> 28693

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caacacaaca gagaaagaaa agagtaagag tatgggaggg tcatggatcat ggcagctcac 180  
atgtgccctc ttgtactct tctccgccgt agtcaccgcc actgaccaca ttgtgggtgc 240  
gaatcgtggc tggaac 256

<210> 28694

<211> 257

<212> DNA

<213> Glycine max

<223> Clone ID: 700944621H1

<400> 28694

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ggatgaagag gtcaattact tcccttcaag gtatgatcct gtccgtcatg cggaaaagggt 180  
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caacttcaag caacctg

257

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<223> Clone ID: 700944635H1

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<223> Clone ID: 700944636H1

<400> 28696

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<223> Clone ID: 700944682H1

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<223> Clone ID: 700944691H1

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<223> Clone ID: 700944723H1

<400> 28699

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 tctttcgttt agttttttca tcttttttagc tttagagggt aatacattct ttaaaaaaat 180  
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 cggttccgaa aatc 254

<210> 28700  
 <211> 253  
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 <213> Glycine max



<223> Clone ID: 700944760H1

<400> 28700

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 caaggcttcg tgaaagacgt tggagtcgct gttgtggcca ctgccgagag tgcagtgctg 180  
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<210> 28701

<211> 162

<212> DNA

<213> Glycine max

<223> Clone ID: 700944775H1

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<210> 28702

<211> 273

<212> DNA

<213> Glycine max

<223> Clone ID: 700944803H1

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 gttctgaaaa atgaaaaggc tgacgtgtac cggctacctt atttggcaag cagtggacct 180  
 ggatttgctc tacttgaagc tgcaagaaaa gctaacttca aagggtacttt cagtgaata 240  
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<210> 28703

<211> 274

<212> DNA

<213> Glycine max

<223> Clone ID: 700944805H1

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<210> 28704

<211> 271

<212> DNA

<213> Glycine max

<223> Clone ID: 700944811H1

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<210> 28705

<211> 273

<212> DNA

<213> Glycine max

<223> Clone ID: 700944816H1

<400> 28705

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 ggatgttggtg aggactaaaa ccacgattt ttgcgaatt ttgcagttcg aacaagacct 240

273

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
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| cacaagttca | aagtgacctt | aaacaaggga | ttgcaggtgc | tgtgcctatt | ccctctgatg  | 120 |
| gtgcttgtaa | aagagcagtc | attgatgcat | tggtaactaa | tgtcgaagct | atgattaaag  | 180 |
| cagatagaaa | gatcactgcc | ttgaaagaat | tgcagggtca | tatgtggcgc | actgggttatg | 240 |
| agaataatga | attgaaggga | atagtttttg | at         |            |             | 272 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| caggctctgc | ctgttgcttt | gatgattcat | gataactcgt | cggatcgcac | ggcctttgtg | 60  |
| ccggcgacgc | atcattcaaa | tttctgccct | atcaactttc | gatggtagga | tagtggccta | 120 |
| ccatggtggt | gacgggtgac | ggagaattag | ggttcgattc | cggagagggg | gcctgagaaa | 180 |
| cggctaccac | atccaaggaa | ggcagcaggc | gcgcaaatta | cccaatcctg | acacggggag | 240 |
| gtagtgacaa | taaataacaa | taccgggctc |            |            |            | 270 |

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<223> Clone ID: 700944836H1

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<210> 28712

<211> 263

<212> DNA

<213> Glycine max

<223> Clone ID: 700944868H1

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<210> 28713

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700944880H1

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 attcaactag ccagaattgt gtggactcct ctacatcaaa agagtttggt ttgttttctg 180  
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002220"CTT2560

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<223> Clone ID: 700944901H1

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gccacctgggt tctttgattg ctctttctca taaggagaag gaaatcacia atgctttgga 180  
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gacaaatatg tatagaccag gtattgatg 269

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<223> Clone ID: 700944914H1

<400> 28716

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agagccttct ccagagtgat gctctttacc agtatattct ggagacaagt gtctacccaa 180  
gagaacctga atccatgaaa gaactgagag agttgacagc aaaacaccca tggaacatca 240  
tgacaacctc tgcag 255

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<223> Clone ID: 700944920H1

<400> 28717

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gaagccaaat ggatgtgacc ttcctgtgtt caacccttc cagtttcttg agataatgag 180  
gggaaaatcc atggcatttg ttggagactc agttggcaga aatcaaagtc agtccatgat 240  
ttgcctctta tcaaggggtg 259

<210> 28718  
<211> 258  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700944922H1

<400> 28718

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gaggacctag aatgggtttc acactttgtg gacgattcac tcccggagct gtcacttcta 180  
tacccggttc gttcggagga agcaaaccgg tttgttgaac cggaaccctc agcgaagaaa 240  
acgccttggt ttccgtgg 258

<210> 28719  
<211> 256  
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<213> Glycine max

<223> Clone ID: 700944957H1

<400> 28719

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 ttctgggtcg tegtgaatct atcttgtgtt tgagagatta agacaaaact ttttgctttg 180  
 caaatggctg ctgcaactgc tgcaactgct tcttgatgc gattcaaagg cggcaaggaa 240  
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<210> 28720

<211> 89

<212> DNA

<213> Glycine max

<223> Clone ID: 700944959H1

<400> 28720

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<210> 28721

<211> 252

<212> DNA

<213> Glycine max

<223> Clone ID: 700944986H1

<400> 28721

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 tcagcgcatt ccttaccgca gacatagatg tcatagtgtt gtgcacatcg atattatcgc 180  
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<210> 28722

<211> 66

<212> DNA

<213> Glycine max

<223> Clone ID: 700944988H1



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<223> Clone ID: 700945015H1

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 tggagccacc aagcccactg agatacttat cggcgccgcc gttatgatga tcggagtgtg 180  
 gttaccagtc ggttacatga tgttccgtaa caagcgcgtc cctcctctt cctcctactc 240  
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<210> 28724  
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 <213> Glycine max

<223> Clone ID: 700945016H1

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 cgaaatcgct ctcatctctt ccaagttctc aaactctata atttcaagag tcccggcatt 180  
 aagaaggaca agatttggga gcagaatttg cagacactgt tgcgtggcag aaacaatggt 240  
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<210> 28725  
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 <213> Glycine max

<223> Clone ID: 700945047H1

<400> 28725

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<210> 28726

<211> 257

<212> DNA

<213> Glycine max

<223> Clone ID: 700945101H1

<400> 28726

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tatctagtgc ctacgcgcat tctaccctca aatcttcacc acacaacact acctcaatta 180  
ctcaactaaa gcttcattca ttcacgtgtg cgtgttggtg tctttgcaac catgcttctt 240  
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<210> 28727

<211> 251

<212> DNA

<213> Glycine max

<223> Clone ID: 700945111H1

<400> 28727

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tgaaggcttt gtggaagcat aatgtctatg gactgactcc aaatattgca tctgttcacc 120  
atttactgag tatgctaaga accacaatga tactaaactg ttggtggaag taatgaagct 180  
tctgaagaag aatgatttac cactgcaacc aggacagca gatataattt ttagcatttg 240  
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<210> 28728

<211> 50

<212> DNA

<213> Glycine max

<223> Clone ID: 700945117H1

<400> 28728

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<210> 28729

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: 700945138H1

<400> 28729

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ttatatcaaa gaacatagcc atgagtatag atttctgtta ttcaatcttg aattggaagt 120

gggtgtcctca aggctactat catttcttgt cactatagt tagatttatt tcaaaagcat 180

tgcacagatc atgggttttt gtggttgaag atttctgcac ctgtcaatga ttatgggata 240

aagagca 247

<210> 28730

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: 700945150H1

<400> 28730

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aaaggcgaag gggaaggctt caggggtttg aaaaagggtg atattgaagc catggttctt 120

gactcattct gacttctcct cgtctcaagt ctccatcttt caggaggcag tttaaaagg 180

atgaactggg tagttggtcc acaacttttc agaggcatcg cttcctctta tctgctcttg 240

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<210> 28731

<211> 246

<212> DNA

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<223> Clone ID: 700945172H1

<400> 28731

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 agaggatctg cattggcaat aggtgttttg ccatatgagt tattagccag tcaatggaga 180  
 aatgtgcttt tgaagctttg tggctcttgt aaaattgagg aaaaccctga agacagagat 240  
 gctgaa 246

<210> 28732  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945174H1

<400> 28732

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 aagtgatcta ttttttgctg atttgagcaa ggaaattgct ctactaatta tggatgaaga 180  
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 tcct 244

<210> 28733  
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 <212> DNA  
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<223> Clone ID: 700945175H1

<400> 28733

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<210> 28734  
 <211> 245  
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 <213> Glycine max

<223> Clone ID: 700945184H1

<400> 28734

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 tcaaacatcc ttcaagaccc tggtatgaga caggatttga ttgatttcca agaaaatccc 180  
 aaggctgcac aggaacacac gaagaatcca atggtgatga acaagatcca aaagctggtc 240  
 agtgc 245

<210> 28735  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945191H1

<400> 28735

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 ctcctttctt tggcttcctc ggagccgccc ctgccctcgt tttttcctgt atgggcgcgg 180  
 cgtacggcac cgcgaagagc ggcgtcgggg ttgcgtcgat gggcgtgatg aggccggagc 240  
 tggt 244

<210> 28736  
 <211> 242  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945193H1

<400> 28736

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 tcgatacaaa ctggatgctc gaacatatat gtacacaatg tcaactgtgg accagggcat 180  
 ggaatcagca ttggaagtct aggaaaggat aacaccagag cctgtgtctc caacattact 240  
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<210> 28737  
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 <212> DNA

<213> Glycine max

<223> Clone ID: 700945195H1

<400> 28737

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 aagcgcgagg cctgggtcac ctatctcacc ctgcgtcccg tcgtcaccgg cgtcgtcatt 120  
 gccgcggggg tgagccgagc ttccatttat ttgggttcat agtatgcatt gcagctactg 180  
 ccgcacgtgc cttaaaatcc gtgttacaag gaattttgct ttcttctgaa ggagagaagt 240  
 tgaat 245

<210> 28738

<211> 263

<212> DNA

<213> Glycine max

<223> Clone ID: 700945235H1

<400> 28738

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 aatggaactt ctccaagttc cttgttgata aagagggaaa tgtggttgat cgctatgcac 120  
 ccacaacttc tcctctgagc attgagaagg acttgctgaa gttgttggat gcatgaatga 180  
 agctatgaat gactggagct gccataaat gaattgtgat tagaatataa attatgaata 240  
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<210> 28739

<211> 110

<212> DNA

<213> Glycine max

<223> Clone ID: 700945237H1

<400> 28739

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<210> 28740

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700945239H1

<400> 28740

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tccccctagc cgatcatcat cacacgcgtt tgttgccatg gcaaccttca cgactctgtt 120  
gttgtgcacg gcggcggcga aggagagcgt gtacgagata ctccccaagt acgggctccc 180  
gagtggctctg ttaccggata ccgtcaccga ctacaaaactc gacgaggatg gccaatctcg 240  
cgtcgttttg ccgaagccct gc 262

<210> 28741

<211> 260

<212> DNA

<213> Glycine max

<223> Clone ID: 700945249H1

<400> 28741

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actgagatta cgttggtaag agattctagg aggccaaagc gtaggagatg caacacttgg 120  
tgagcttctc aagaaaaaag cacgtgatgg tgtcagggtt ttgatgcttg tttgggatga 180  
tagaacttcg gttcctttgt taaaagaaga tggcttgatg gcaactcatg atgaagacac 240  
cgagaactac ttctacgaca 260

<210> 28742

<211> 240

<212> DNA

<213> Glycine max

<223> Clone ID: 700945263H1

<400> 28742

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caccagtata gtatgtatgt aaataatttg cacgatgtaa tgttatgaag gaggaaactg 120  
ctaagcacat gtttatgctt ttattctgta attctctatg ctagctagtc tagccacaaa 180  
tcattacca ctgttatagt tattgcaagt aacctgaatg aaattaattt gagttctcac 240

<210> 28743  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945267H1

<400> 28743

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 tagtgctttt gactcaagcc tttatacttg tatgcatcta ttaaactccg ctgaaactct 180  
 tgtagttgga actggaaatg gttctctgag gttctttgat gttgctcgag gtcaaaagct 240  
 tcatatctgg agagg 255

<210> 28744  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945301H1

<400> 28744

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 aaagagccca agctctacag aaatggttgc actcagagaa tacatgcatt tgaaaggagc 180  
 ctttttgatg gaaatatgtc tgtttcagga aacttagata atgtacagaa tgaaaattta 240  
 gtcagtgtac atgaagaagg taaaacaatg actgtatcaa cta 283

<210> 28745  
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 <213> Glycine max

<223> Clone ID: 700945310H1

<400> 28745

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cagatactag ctcggtttgc gaggaacgag ttcagcttgg actccaagtc caccatcggt 180  
 gttgaatttc agacgaggac tttggttatc gatcacaaga ccgttaaggc tcagatctgg 240  
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<210> 28746  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945323H1

<400> 28746

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 ggaaatttgg agcaaaagct tcaagtgtgc aaggaaatgc attaaagata gttgctaagc 180  
 ctgaatttca ggctaagcta aaattcagac agagagcaaa agattcaagc ctggctaagc 240  
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<210> 28747  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945341H1

<400> 28747

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 tctactaggg attctcattc gatgcatc ggccggaagc tttcgttttg cggatttttt 180  
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 ggatgccaag ctccccaga aggt 264

<210> 28748  
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 <212> DNA  
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<223> Clone ID: 700945349H1

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 atgacgagac atttgccaag atgaagaaag gagttcgcat agtcaatggt gctcgtggag 180  
 gggtcattga tgaggatgcg cttgttaggg cactggattc tggaattgta gctcaggcgg 240  
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<210> 28749  
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 <212> DNA  
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<223> Clone ID: 700945371H1

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 ggcactcttt gtacctgggt tatcagtgtg tcacaaagtt ggatcccatg ctttaccagc 180  
 gacagattct gatgttgacc tgtcgtggca gcttactcta caaagagtgt gggaaaatct 240  
 catgcaaggg aacaaaga 258

<210> 28750  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945387H1

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 tccgccagga agctgaggag aaagccaacg agatctctgt atctgccgaa gaggaattca 180  
 atatcgagaa gctgcagttg gttgaagccg aaaagaagaa gatcaggcaa gaatacgaac 240  
 gcaaagagcg ccaagt 256

<210> 28751

<211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945391H1

<400> 28751

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 cgctcctctt ctcattegcc acagcaaaat cccaacggc tttgggtgtc cagaaggaga 180  
 agctcagcca ccttcacttc ttcttccacg acatagttag cggtccaaag cccaccgcgg 240  
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<210> 28752  
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 <212> DNA  
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<223> Clone ID: 700945393H1

<400> 28752

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 ataacagggg acgacggagg caagtctgag atacaacctt gaggactcaa cattgtgtgg 180  
 ggaaatgatt ctcgatactg gaaaattcca gaacaaggtc ctgaggagct gatccaagtt 240  
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<210> 28753  
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<223> Clone ID: 700945431H1

<400> 28753

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gcttgctggg atcgatacaa attttactgt tacatcgaag gcatcggacg aggatgggga 240  
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<210> 28754  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700945446H1  
 <400> 28754

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 catcaacata atgaccacag ctccaattat gccacccaaa ccaaagtgtt ttcccagtca 180  
 gggtcagggt taggccccctt caccacaaa actcaaacac aatgcgggtt cccccaaca 240  
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<210> 28755  
 <211> 278  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700945508H1  
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 tcacccccaa acgcttcttc gatcttcac agcttggaat taaggaagca attgagaagg 180  
 agcgcgctcg actttagat gaaatgacta ggggatactt cgctgatatg gctgagttca 240  
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<210> 28756  
 <211> 276  
 <212> DNA  
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 <223> Clone ID: 700945524H1  
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 gttcgccatt gccgcccaga gaagaagaag cgtcgggaacc atgcacaaaa ttgaaggaac 180  
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<210> 28757  
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 <212> DNA  
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<223> Clone ID: 700945526H1

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 atttacctcg gaccctactg atgtatttta caaatgtgaa attatctcaa gaagggattt 180  
 ttcactcagt tgtttgcaat gtgccagaat ttaagaacac gacagtaaatt ggtgacttac 240  
 gatatatgat ctgggacaat cctccaaaga tgga 274

<210> 28758  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945529H1

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 aggatccacg agaggatgtc cttcaagcct ggtacatgga tgatagtgat gaagatcaaa 120  
 gactcccca ccacaaagaa cccaaggagt ttgtctcgtt ggaccaactt gctgaatttg 180  
 gagtccttag ctggaaacta gatgctgata accatgaaaa tgatccagag ctgaagaaga 240  
 ttcgtgaaga gcgtgggttac acctacatgg atgtt 275

<210> 28759  
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 <212> DNA

<213> Glycine max

<223> Clone ID: 700945544H1

<400> 28759

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cacaaggaat caacaacat ggattcacag ggccagacaa cttcattgca gagacttcag 120  
aatgtagaag 130

<210> 28760

<211> 129

<212> DNA

<213> Glycine max

<223> Clone ID: 700945553H1

<400> 28760

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gttgagctct tctgatccca gatccgaagc ttgatgtact gtttctttaa tcatagttag 120  
atccaagtt 129

<210> 28761

<211> 270

<212> DNA

<213> Glycine max

<223> Clone ID: 700945557H1

<400> 28761

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tattcttcaa cgtgccatta gtcaggctga gaatgatttc ttgtacatgg ttgagcagga 120  
aatggaggaa cgtcctgatt tagtttctat tggatcttgt gttttacttg tgcttcttca 180  
cggtaatgat ttgtatacac ttaatctagg tgacagcaga gcagtattgg caacatgcgg 240  
tacagctgat cggatggata agagtgagag 270

<210> 28762

<211> 270

<212> DNA

<213> Glycine max

<223> Clone ID: 700945559H1

<400> 28762

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ctctctcttc atcattattg gctggccaag ctatcaagct tgccccctcc acccctcagc 120  
ttggtgttgg tagggtttagc atgaggaaaa cagcctccaa gactgtttct tctggaagcc 180  
catggtacgg cccagaccgt gtcaagtact tgggcccatt ctctggtgag ccccatcct 240  
acctcactgg tgaattccca ggtgactatg 270

<210> 28763

<211> 267

<212> DNA

<213> Glycine max

<223> Clone ID: 700945575H1

<400> 28763

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acggtaagta tggcggacaa ggctgttaca atccgaaccc gaaagttcat gaccaacagg 120  
cttctttcca ggaagcagtt tgtcgttgat gttcttcac cagggagggc aaatgtttcc 180  
aaggctgaac ttaaggagaa gctagctagg atgtatgatg tgaaagaccc taatactgta 240  
tttgtcttca aattccgaac acatttt 267

<210> 28764

<211> 269

<212> DNA

<213> Glycine max

<223> Clone ID: 700945593H1

<400> 28764

ccgaaaatga acgacgcaga cgtctcaaag caaatccagc agatgggttcg gttcatccgc 60  
caggaagctg aggaaaaagc caatgagatc tctgtctccg ccgaagagga attcaatatc 120  
gagaagctgc agttagtcca agccgagaag aagaagacca ggcaagagta cgaacgcaaa 180  
gaacgccaag tcgaaattcg caagaagatt gagtactcaa tgcagctgaa tgcttctcgg 240  
atcaaagttc ttcaagctca agatgacgt 269

<210> 28765  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945594H1

<400> 28765

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 ccacacagaa tcagggtctca agtcctctga cgacttcctc tctgggaagg tctacgtttc 120  
 tggggatcag ttcacaaagg acgacatcaa agtgtatggg gctgttttgg agaagccagg 180  
 tgactctttt cccaatgctg ccaagtggta cgaggttgct tcatctcagc ttgctgcaag 240  
 cttccccggc aatgctcaag gggtgaga 268

<210> 28766  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945658H1

<400> 28766

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 tgctccgcca cgttcgtgtg ccaactccaag ccgctccaaa actgcagcca tggcgtgcca 120  
 tgtcatcaca cggcgacgat catctctcca aagaggaggt cgtcgaaaga gtcctcgccg 180  
 tcgtcaaaga tttccccaaa gtcgacctt ccagggtggg ccagatgtac atttccagaa 240  
 ggatttgggt ttggatagct tgg 263

<210> 28767  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945674H1

<400> 28767

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 ctgtggttgc ggaagcgcct gcaagtgcgg caacggctgc ggaggctgca agatgtaccc 120



agacttgagc tacaccgagt caaccaccac cgagaccttg gtcattgggag tggcaccagt 180  
 taaggctcaa ttcgagagtg ctgaaatggg tgtcccgtg agaacgatgg ctgcaaagt 240  
 ggagctaact gcacctgc 258

<210> 28768  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945716H1

<400> 28768

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 gcgccatcgg atcatgggtg gtctacttc tctccagcg tggttacacc gtccatgcca 120  
 ccgtccaaga tatcaaggat gaaaatgaga cgaaacattt ggaggaaatg gaaggagcaa 180  
 agagtcatct ccattttttt gaaatggatc ttcttgacat cgactccatt gccgctgcca 240  
 taaagggttg ttccggcgta atc 263

<210> 28769  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945943H1

<400> 28769

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 gattctgtgg gaaaagcttc tcaatctttg acgaagataa acaacaatgt cttcacttgc 120  
 ggctgctaga gcagacaact ttactatcc ccagaatgg gaaccgaatc agggttcgct 180  
 gaacaagttt catggtcaac atgccttgcg agagagggcg agaaaattag atcagggtat 240  
 cctgattata 250

<210> 28770  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945973H1

<400> 28770  
gcaattaatg cttatgagca atgtcttaag attgatcctg attctcgaaa tgctggccag 60  
aaccgtttac ttgcgatgaa ttacatagat gaaggaaatg atgacaaact ttttgaggct 120  
cacagggact ggggtaggcg atttatgaga ctatattcac agttcacatc atgggacaac 180  
tcaaaagatc ctgaacggcc tcttgtgata ggatatgtct ctctgatta ttttacacat 240  
tctgtg 246

<210> 28771  
<211> 63  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: 700945981H1

<400> 28771  
ggaacacacg cagttgcatt tgcnttacca ttcgcaatgg cgaatntnnc tncactttca 60  
nga 63

<210> 28772  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946095H1

<400> 28772  
ggtaaagcac ttccccagtt ttgatcttgt aacacttttt cgggtttgtt gaatctgctt 60  
ctttttatatt caatttgga ttgactcata tgacaagtat gtatagtggg gggttacctg 120  
ctctagttac aaacttatcc ccaagagcaa cagaggatga tgtgcgcaat tttttcacat 180  
actgtggttt gattgagcat attgaaatat taagatctgg tgaaaatgcg cctactgcat 240  
atgtgactta ccggga 256

<210> 28773  
<211> 266  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946104H1

<400> 28773

ctggagtgaa gcacattgtg ttagtaggggt ctatgggtgg aacggacctt aaccatcctt 60  
tgaacagctt gggtaatggg aatatattgg tttggaaaag gaaggctgag caatatctgg 120  
ctgattccgg catcccatat acaattataa gggctgggtg cttgcaagac aaagatggag 180  
gtcttcggga actacttgta gggaaggatg atgagcttct ccagactgaa accagaacca 240  
taagtagatc tgatgttgca gaagtc 266

<210> 28774

<211> 261

<212> DNA

<213> Glycine max

<223> Clone ID: 700946134H1

<400> 28774

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ccattaagat gacttcatac ggtaccacaa ttttggcaca cttgtttggc cttcttgctc 120  
tcacctctct gcttgtttgg ttgctgaatt atcgcgaggg cattgaatat gattctgaaa 180  
atccacttgc tgttttcaat gttcaccctt ttatgatgtt ctttggaattc attttcctta 240  
ttggtcaagc aatactgtca t 261

<210> 28775

<211> 255

<212> DNA

<213> Glycine max

<223> Clone ID: 700946153H1

<400> 28775

ggcccagttc cattagttct gtcttgcgga tcacgatcct cagttactag aaaatcagat 60  
atctctttcc attggacctt atgacctata gggctacatt gggattgtac aaatttaaat 120  
cttatcatcc ttcatcttcc caatatgtac taccacaaac atgaaatgat catcaacaaa 180  
gacacatgta ttccaatcaa tcaattacaa tacaaaagat aaaagtaaaa ccgtgtctgt 240  
ggccgcaaag taaaa 255

<210> 28776  
 <211> 266  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946230H1

<400> 28776

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 accaatgaaa caagggtgttc cttgtagtga cacactgttg catgactcaa attctgactt 120  
 tgagttcagc acaagcacct gccttgagtt cgaatcatct tcagcagatg aactcttctc 180  
 taatgggggtg atccttccaa ttcagatgca agacaaaacc acagctagaa aactcactca 240  
 tcatgtgaaa tctctcaca caaaac 266

<210> 28777  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946236H1

<400> 28777

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 ccttgcaaga cttcatcaat ggctgtcaaa gtttatattg tgtactactc catgtatggg 120  
 catgttgaga aactagcaga agaaataaag aaaggggctt cctctgtgga aggtgttgag 180  
 gccaaattat ggcagggtacc tgagacgctg caggatgagg tgctcggtaa gatgagtgc 240  
 ccaccaaga gcgatgtacc agtcattac 269

<210> 28778  
 <211> 264  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946246H1

<400> 28778

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 agaaccacaa atattgttgg tgggaatgac tgtgttgcca gatacaataa catagcattg 120  
 gagttcaatg ataagctcaa gaatttgacc attaagctaa accaagagct ccctggactc 180



aaaaatagag catccacttg atatactttg gatttttgag tttgatttgt tttgttttgc 60  
 attcactctc atctgtaagt tgtatatatt ctagcttttt acaggctcta caattgagtg 120  
 atttgggttc caaggtc 137

<210> 28782  
 <211> 269  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700946265H1  
 <400> 28782

cgtactttat gatcaagtgt ctggggacct taaaactgat tcagcaaag gaagtattgt 60  
 atttgggtgt ggtgcaagac aatctggaga tctaagttct tcgaatgaag aggcacttgg 120  
 tggaatactt ggatttggaa aagctaattc atcaatgatt tcacaacttg cttcttctgg 180  
 caaagtgaaa aagatgtttg ctcatgctt aaatggagta aatggaggtg gtatatttgc 240  
 tattgggcat gttgtgcaac ctaaagtaa 269

<210> 28783  
 <211> 265  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700946271H1  
 <400> 28783

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 cggagtgata ttctcaccgg agacactggg gtcaaaatca accacacttt ccacctacct 120  
 caaactcgct cacctcctct gcttctccac cgccttcggc gccgtctctgt gggtaacatt 180  
 catcgcggc atcatcatgt ttaaaaatct gccgcggcat cagtttggga acctgcaaag 240  
 caagatgttt ccggcgtatt tctcg 265

<210> 28784  
 <211> 264  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700946280H1

<400> 28784  
aagacacact cgttcatata tctctctgct cttctcttct cttctacctc tcaagttttt 60  
gaagtataaa gatggcagag acattcctat tcacctcgga gtcagtgaac gagggacacc 120  
ctgataagct ctgcgaccaa atctccgatg ctgtcctcga cgcttgccctc gaacaggacc 180  
cagacagcaa ggttgccctgc gaaacatgca ccaagaccaa cttgggtcatg gtcttcggag 240  
agatcaccac caaggccaac gttg 264

<210> 28785  
<211> 263  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946287H1

<400> 28785  
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gatecccttca tccatatacg ttcaccgcaa cttctcttcc atccatcgca agatctagtt 120  
gaatctcaac cgcgctcctc cgattcgaag ctccactcac tcaaactctc ttcagatctg 180  
ggggggtttga ttgcgattct cactctgctg ctccgatttg ttctgtctgag atgtcgtatt 240  
taccgaaagg cgattcgggtt caa 263

<210> 28786  
<211> 259  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946292H1

<400> 28786  
agagcagccg ttgggttcca attgaaaaaa gggaaagatg gccttcccgg gctaacttga 60  
acaacaacga gttggcaatc tacgtcttgc agcctgatga acttaccgag gactctgaca 120  
gctggaaaat agcagtccag aattattggt cactcatgtc acctttaata ttttctgac 180  
atccgaagag gcccggtgat gaggaccctt caccgcctta caacatgttc agaaatgtgc 240  
tagacatgaa tgctcattt 259

<210> 28787  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946293H1

<400> 28787

aaccctcttg ccgcacttcg tgtggggccc actcccgcac ttcctccaga cgtggcttcg 60  
 caattacctc ggcggcggtcc tctctacct cctctccggc ctctgtggt gcttctacat 120  
 ttattattgg aagcgcaacg tttatgttcc caaagatgct attccctctc gaagagccat 180  
 gctcttgcaa atatctgttg ctatgaaagc catgccttgg tacactttgc ttccaactgt 240  
 ttcggagtac ctggtagaa 259

<210> 28788  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946302H1

<400> 28788

gaatacacca aattctacca ctctcttgcc aaggatttca gtgatgagaa accttttagca 60  
 tggagtcatt tcaactgctga ggggtgatgtt gagttcaagg cagtcctgtt tgtaccacct 120  
 aaggcacctc aagatttatt gagagctatt ataacgcaa caaatcgaac ctgaagttgt 180  
 atgttagacg tgtgttcatt tcagatgaat ttaatgaact gttgcccaag tacctaaact 240  
 ttttgctggg tcttggtg 258

<210> 28789  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946319H1

<400> 28789

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 gccttctcct tcaaaagcag ctcaaagatc tttgcaaaaa ccccgtcgac ggcttctctg 120  
 ccggtttggt cgatgaacca acattttcga atggagtgtc accataattg gaccgcccga 180



tactctttac gagggggatt tttcaatgct attatgagtt tcccatccaa ttacccaaat 240  
 agtccacctt cagtt 255

<210> 28790  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946322H1

<400> 28790

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 catgagtatc gcctcaacat ccttaacgcc tctcagagcc atgttcccat ggaaaattgg 120  
 gttctatgtc gcatattttg aagaagagaa gcggtgctaa aaatggggag gagagcaaca 180  
 aggtgaggaa ctctaagggtg gttttctatg acttcctagc gcagaacaag actgattcct 240  
 catcctcggc cgcca 255

<210> 28791  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946325H1

<400> 28791

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 tcatgaaagg aggaaagtcc aagaccgaat ctaagagagc cgatcccaaa cttgctgtga 120  
 ataagaaggg agccgcacca aggctaggaa acccgccggc aaggggaagg cagcgaaaga 180  
 ccctaacaag ccaaagaggc ctccaagtgc tttcttcggt ttcatggagg agttcaggaa 240  
 ggtattcaac aaaga 255

<210> 28792  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946326H1

<400> 28792

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cttttcgcca tgcaactagc cagtgcctca gtactcccta tggttctcaa atcagctctt 120  
gagcttgatc tgttggaatc atagccaagg ctggccctgg tgttcacctt tccccctccg 180  
acattgcttc tcggctccca acacacaacc ctgatgcacc cgttatgttg gaccgtatat 240  
tgcgcctctt ggctt 255

<210> 28793  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946328H1

<400> 28793

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ctatactatg ccattccgtg gtctcaggga aactcggcc ttcttggtgc tgctgagatc 120  
aggcttatac ccgttaagag tacatgaagc taacctataa acctgttggt ggcaccctgc 180  
aagatcttgc tcaggcatat tgtgattctt ttgctcccag agatggagac caggataatg 240  
aggagaaggt tccag 255

<210> 28794  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946329H1

<400> 28794

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ccaagtggaa gaagaagcgt atgaggaggc tgaagaggaa gcgccgaaag atgagacaga 120  
gatccaagta gtgcgttaac ctagtttggt tccgttgctt ttacaattgc ttatgttgtc 180  
aaataggaca ccagttggt agtggcactg gtctctcctt tttgatgttt tgatacattt 240  
tggttgattt tatttc 256

<210> 28795  
<211> 253

<212> DNA  
 <213> Glycine max

<223> Clone ID: 700946340H1

<400> 28795

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 tatgtcacct gtgcagtctg gttggataaa cttagtgact tacctgtaaa ggatgttgcc 120  
 gattcaatta aaagttggcg acagatactg cccagttctt accacaccaa gacaagaacc 180  
 aaggaaaagg tgctcatcct catatgtcaa catggaaggc tgatattggg ggtgaatcag 240  
 cagatggttt att 253

<210> 28796  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946341H1

<400> 28796

gcagaaagca agctcatcct agagtttttaa aaatggcagc agcctcctcc atggctctct 60  
 cttccccatc cttggctggc aaggccgtga agctgggccc atcagcccc gaagtcggga 120  
 gggtcagcat gaggagaccg tcaccaagca ggctcctcc ggaagcccat ggtacggccc 180  
 agaccgctc aagtacttgg gccattctc tggcgagccc ccgtcctacc tcaactggcga 240  
 gttcccaggt gac 253

<210> 28797  
 <211> 253  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700946342H1

<400> 28797

gtgatttatg aaataggttt ttggtgctgc atggaaatcc gttttcacag ctgatgagaa 60  
 agagcgtgag aagaatgttg aggaagcaat tgaggctctg cagtttcttg agaatgagat 120  
 aaaggacaag aagtctttgg aggagaggag attgggttgg tagatattgc tgctgtctac 180  
 atagcatttt ggggccctat ggttcaagaa attgcagggt tggagttatt cacaagtgag 240

aaatttccta agc

253

<210> 28798  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946343H1

<400> 28798

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gtgaatactc cgcgaaggat taccatgacc cacctccggc gccgttgatc gaccagatg 120  
agctcactaa gtggtcttgt acagagccgc catagctgag ttcatagcaa cactcctttt 180  
cctttacatc accgtgttga ccattattgg ctacaagaga cagagtgaca ccaaaatccc 240  
cggtaacacc gagt 254

<210> 28799  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946345H1

<400> 28799

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cgtcgctttc gaatccaatg gccttcaaca acgcactgag atctgccgcg aagtcgtcgc 120  
ttcttccgaa tcttcttctc taactcagt agcagagggt ttcattcaac tggcatgaag 180  
aggatgggag gtggacatgg tcatgatgag ccctactatc ttcatgcaaa gcacatgtac 240  
aacttggaac agat 254

<210> 28800  
<211> 252  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946349H1

<400> 28800

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tttgctgatg agaacttcaa gttaaagcat actggaccag gacttctatc aatggcaaat 120  
gctggctcctg acacaatggc tcacaatttt tcattacaac cgtgacaact agctgggttg 180  
acggaaggca tgttggtttt ggtagagttc tttctggatt ggatgttggt tacaatattg 240  
aagctgaagg aa 252

<210> 28801  
<211> 251  
<212> DNA  
<213> Glycine max  
<223> Clone ID: 700946353H1  
<400> 28801

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tacgaaatcg gagaggctgc gtgggaattc ctcaagcctg aagtcttcgc cgccattatg 180  
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<223> Clone ID: 700946355H1

<400> 28803

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ttccgacctg atacttcgtc ttcggccagt ccggcgccgg aaacaactgg gccaaaggtc 180  
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<211> 251

<212> DNA

<213> Glycine max

<223> Clone ID: 700946360H1

<400> 28804

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attgggatgg tttagaacaa aagataaaga gcgtatactt gttcttgctg ctacaaatag 180  
accttttgat cttgatgagg ctgttattag gagacttcca cgaagattga tggttaattt 240  
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<211> 254

<212> DNA

<213> Glycine max

<223> Clone ID: 700946364H1

<400> 28805

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ctcaggaat cagtatgcca agcttgccaa cttgccacct attcttgat tatattcgag 180  
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<223> Clone ID: 700946371H1

<400> 28806

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<223> Clone ID: 700946372H1

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<223> Clone ID: 700946374H1

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 gccaaagtcac t 251

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<400> . 28811

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 tgctttgcag gcggtggcgg cgaaggagag cgtgtacgag atactcccca agtacggcct 180  
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<210> 28812

<211> 249

<212> DNA

<213> Glycine max

<223> Clone ID: 700946388H1

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 caaccccgct atgaagacat catagggcat attccagccg ctactaagga agatgttgac 180  
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<212> DNA

<213> Glycine max

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<400> 28813

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<210> 28814  
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<223> Clone ID: 700946393H1

<400> 28814

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<210> 28815  
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<223> Clone ID: 700946412H1

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 tgctggtgaa tgtgggaaat ctaccacccc agataatgag gcttataagc ttgcaccatg 180  
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<223> Clone ID: 700946413H1

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 agcagtagtg ggtggggaaa gaggtgggtg gtgacagagg tgctttgtgg gattttaccg 180  
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<223> Clone ID: 700946414H1

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<223> Clone ID: 700946444H1

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 cccctgcgct tttccaaatt ttttcagtcc aacatgagaa tcttggttac tggaggagct 180  
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<223> Clone ID: 700946447H1

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 atctcaaggg gattggagtc aatagggatg ttaagctcgc ctgtaagttc tttgttttcg 180  
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<210> 28820  
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<223> Clone ID: 700946464H1

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 tacagggtga aagccaggac ctcaaaaat tcagggtatt ggggctgggt ttgtgccag 180  
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<223> Clone ID: 700946476H1

<400> 28821

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 tattccccag gttttggaca tggttactga tccacattat ctgtatcgga tgacaatctt 180  
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<223> Clone ID: 700946477H1

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 ccaaactagt atcgcttccc attttcgata tcaactctag aagactgaag atttggcttc 180  
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<210> 28823  
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<223> Clone ID: 700946479H1

<400> 28823

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 cttagttcca aggaatatga agattgggtg tctggtaagt cagatatgca agagagtagg 180  
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<223> Clone ID: 700946488H1

<400> 28824

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<223> Clone ID: 700946491H1

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<210> 28826  
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<223> Clone ID: 700941104H1

<400> 28826

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<223> Clone ID: 700941174H1

<400> 28827

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<223> Clone ID: 700890283H1

<400> 28828

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<223> Clone ID: 700892544H1

<400> 28829

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<223> Clone ID: 700893935H1

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<223> Clone ID: 700945665H1

<400> 28831

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<223> Clone ID: 700889170H1

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<223> Clone ID: 700894957H1

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aacgccatta acc 253

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<223> Clone ID: 700808315H1

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tgctgtcgtt ttcttgtctg gtggccagag tgaggaggag gcatccgtca acctcaacgc 240  
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<210> 28838

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: 700894146H1

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<212> DNA

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<223> Clone ID: 700942532H1

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<223> Clone ID: 700890349H1

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<213> Glycine max

<223> Clone ID: 700889072H1

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<212> DNA  
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<223> Clone ID: 700889668H1

<400> 28842

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ctggtaaat tggcaagcga ttggccagca ttaatgtcga gaatgttgaa gcaaataaggc 180  
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<210> 28843  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700890647H1

<400> 28843

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 ttggaattgc aattattagt tggattgctc tgccaacatc cttcacaatt ttcaactttg 180  
 gcgctcagaa ggaagtaaag agctggcagc tgttcctctg tgtgggtggt ggtctatggg 240  
 ctggac 246

<210> 28844  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700942978H1

<400> 28844

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 cattggagac cctcttaaag atacttcagg tccttcactc aacatcctca tcaagctcat 180  
 ggccgttgag tcgctcgtct tcgcaccatt tttcgccact cacggtggcc tgcttttcaa 240  
 gatcttttga tttgagggt 259

<210> 28845  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700944280H1

<400> 28845

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gtgcgccgtc atcgggatcg ggtcctggct ggtgcagtgg ttctctgtgt cgcgcgtcaa 180  
gctcactc 188

<210> 28846  
<211> 236  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700891764H1  
  
<400> 28846

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gagatagtcg tgccagtgtg cgcgcgtcatc gggatcgtgt tctcgtggtg gcagtgggtc 180  
ctcgtgtcgc gcgtaagct cactcccgac cgcaacggaa cgacgtcgtc gccgcg 236

<210> 28847  
<211> 249  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700895231H1  
  
<400> 28847

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aagtgcattg aattcgagta aacctacccc taagctcaat gaaagaattc tgtcttctct 120  
gtcacggaga actgttgctg ctcacccctg gcacgactta gagattgggc caggagctcc 180  
agcagttttc aactgtgtgg ttgaaattgg caaaggaata acgtaagtat gagctggcag 240  
acaagtgga 249

<210> 28848  
<211> 222  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: 700890526H1  
  
<400> 28848

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 aaggccgaga tgaagaagat gtacggcctg atcgagacca aagtgttgaa cgggcaactc 180  
 agantgantt cagtatagag taaccgatct aggaacggag ag 222

<210> 28849  
 <211> 220  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700893784H1

<400> 28849

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 gtgtatcgt tctggaagca cgtgaccaat cttgaacgcc gtgcgagcaa acgttacctc 180  
 gagatgttct atgctctcca gtaacgcaaa ttggctgagt 220

<210> 28850  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: 700944438H1

<400> 28850

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 gccttgatat cacgcctcgt attctcatta ttactcgtct tcgccctgat gcagtaggaa 180  
 ctacctgtgg ccaacgtcta gagaccgtat atgatactga atattgtgac attctccgag 240  
 ttccttgag aaccgaaa 258

<210> 28851  
 <211> 265  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700945733H1

<400> 28851

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 tgagagggttt actcaggatg caacagccaa gattcttgag ttcattggaag ggaaaccaga 120  
 tctagttatt ggaaattaca ctgatggaaa tttggttagca tctaataatgg ctagaaaact 180  
 tgggataact cagggaacta tagcacatgc tttagagaag accaagtatg aagactcaga 240  
 tgtcaagtgg caagagttgg acccc 265

<210> 28852

<211> 245

<212> DNA

<213> Glycine max

<223> Clone ID: 700891996H1

<400> 28852

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 actctcactg gtcacaggaa cgaaattttg gcccttctgt caaggcttga agccaagggc 120  
 aagggaatcc tgcaacatca tcaagtgggt gcagagtttg aagaaatccc tgaggagagc 180  
 agaaagaaac tccaagatgg tgtctttgga gaagttttga gatccacaca ggaagccata 240  
 gtgct 245

<210> 28853

<211> 265

<212> DNA

<213> Glycine max

<223> Clone ID: 700945706H1

<400> 28853

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 tactcggaat tcgagaacag attccgggag attggtctgg agaggggggtg gggtgacact 120  
 gccgagcgtg tcctcgagat gatccagctt ctctggacc ttcttgaggc acctgaccct 180  
 tgcaccctcg aatcattcct tggaagagtc cctatggtct tcaatgttgt taccctttct 240  
 ccccatggtt actttgcccc agata 265

<210> 28854  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700889102H1

<400> 28854

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 aaatcgaaga actcctttac agctcagtgg agaatgaaga acacatatgt gtgctgaagg 120  
 accgcagcaa gccaaattatc ttcgccatgg caagggttga tcgagtgaag aacatcacag 180  
 gacttggtga gtggtacggt aagaacgcga agctgagggg gctggtgaac cttgtggttg 240  
 ttgctggaga caggaggaag gagtcaaagg acttggaa 278

<210> 28855  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700890311H1

<400> 28855

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 atcgagacct acaagttgaa cggccaattc agatggattt catcgagat gaaccgtgtg 180  
 aggaatggag agctctaccg cgtgatctgc gacaccaggg gtgctttcgt gcagcctgct 240  
 gtatacgagg cttttggttt ga 262

<210> 28856  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700892212H1

<400> 28856

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 caggaggaag gagtcaaagg acttggaaga aaaggccgag atgaagaaga tgtacggcct 120  
 gatcgagacc tacaagttga acggccaatt cagatggatt tcatcgaga tgaaccgtgt 180



gaggaatgga gagctctacc gcgtgatctg cgacaccagg ggtgctttcg tgcagcctgc 240  
tgtatacgag gcttttggtt tga 263

<210> 28857  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700943424H1

<400> 28857

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cactgttgga cagtacgaat ctcacacagc cttcaccctt cctggactct accgcgttgt 180  
gcatgggtatt gatgtctttg atccaaaatt caacattgtc tccoctggag ctgatcaaac 240  
catttacttc ccca 255

<210> 28858  
<211> 255  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700889648H1

<400> 28858

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gtatacgagg ctttttggtt gacagtgggt gaggccatga cttgcggctt gccaacattc 120  
gccacatgca atggtggtcc tgctgagatc attgtgcacg gcaagtctgg cctccacatt 180  
gacgcttacc atggtgaccg tgctgctgat ctcttgttg acttctttga gaagtgcacg 240  
cttgacccaa ctcac 255

<210> 28859  
<211> 256  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700945690H1

<400> 28859

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 ttgacagtgg ttgaggccat gacttgccgc ttgccaacat tcgccacatg caatgggtgg 120  
 cctgctgaga tcattgtgca cggcaagtct ggcttccaca ttgaccctta ccatgggtgac 180  
 cgtgctgctg atctccttgt tgacttcttt ggaagtgcga gcttgaccca actcactggg 240  
 acaagatctc aaaggc 256

<210> 28860  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700888245H1

<400> 28860

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 cggcctgatc gagacctaca agttgaacgg ccaattcaga tggatttcat cgcagatgaa 120  
 ccgtgtgagg atggagagct ctaccgcgtg atctgcgaca ccaggggtgc tttcgtgcag 180  
 cctgctgtat acgaggcttt tggtttgaca gtggttgagg ccatgacttg cggcttgcca 240  
 acattcgcca 250

<210> 28861  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700888950H1

<400> 28861

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 gagctctacc gtgtcatctt cgacacaagg ggtgcctttg tgcagcctgc agtttatgag 120  
 gcctttgggt tgactgtggt tgacgccatg acttgtgggt tgccaacgtt tgccacatgc 180  
 aatgggtggc ctgctgagat cattgtgcat ggaaaatctg gttaccacat tgatccttac 240  
 catggtgacc atgctgctga gat 263

<210> 28862  
 <211> 252

<212> DNA  
 <213> Glycine max

<223> Clone ID: 700894112H1

<400> 28862

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 tcctttacag ctcaagtggag aatgaagaac acatatgtgt gctgaaggac cgcagcaagc 120  
 caattatctt caccatggca aggttggatc gagtgaagaa catcacagga cttgtggagt 180  
 ggtacggtaa gaacgcgaac tcgagggagc tggatgaacct tgtgggtgtt gctggagaca 240  
 ggaggaagga gt 252

<210> 28863  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700944525H1

<400> 28863

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 ggaacggaga gctctaccgt gtcattctgtg acacaagggg tgcctttgtg cagcctgcag 120  
 tttatgaggc ctttgggttg actgtggttg aggccatgac gtgtgggttg ccaacgtttg 180  
 ccacatgcaa tgggtggtcct gctgagatca ttgtgcatgg aaaatctggt taccacattg 240  
 atccttacca tggtgaccat gctgctga 268

<210> 28864  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: 700944860H1

<400> 28864

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 tcatgcactt gagaagacca aataccccga atccgacatt tactggaaaa aattggaaga 120  
 gagataccac ttctcttgcc aattcacagc tgatctattt gccatgaacc acacagattt 180

catcacaanc agtaccttcc aggagattgc tggactgcag gacactgttg gacagtatga 240  
gtctcacaca 250

<210> 28865  
<211> 259  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700891092H1

<400> 28865

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gaacctggtg gtggtggctg gagacaggag gaaggagtcg aaggacttgg aagagaaggc 120  
cgagatgaag aagatgtatg gcctcatcga gacctacaag ttgaacggcc aattcagatg 180  
gatatcctct cagatgaacc gtgtgaggaa cggagagctc taccgtgtca tctgtgacac 240  
aaggggtgcc tttgtgcag 259

<210> 28866  
<211> 231  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700894436H1

<400> 28866

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caacatgttc tgaggcaagc tgaggagtat ctgggcacag tgcctcctga aactccctac 120  
tcagaatttg agcacaagtt ccaggagatt ggtttggcga gaggggtgcgg tgacaacgca 180  
gagctagtcc ttgagtccat tcaacttctc taggatctac ttgaggcgcc t 231

<210> 28867  
<211> 245  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700894532H1

<400> 28867

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ttctcatgcc aatttactgc tgatcttttt gcaatgaacc acacagactt tatcatcacc 120  
 agcaccttcc aagagattgc tggaagcaag gacactgttg gacagtatga gagtcacact 180  
 gccttcaccc ttccaggact ttaccgtggt gttcacggta ttgatccatt tgatcaaagt 240  
 tcaac 245

<210> 28868  
 <211> 236  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700891712H1  
 <400> 28868

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 tcatgccaat ttactgctga tctttttgca atgaaccaca cagactttat catcaccagc 120  
 accttccaag agattgctgg aagcaaggac actgttggac agtatgagag tcacactgcc 180  
 ttcacccttc caggacttta cegtgttggt cacggtattg atccatttga tccaaa 236

<210> 28869  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700889555H1  
 <400> 28869

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 atcaccagca ccttccaaga gattgctgga agcaaggaca ctgttggaca gtatgagagt 120  
 cacactgcct tcacccttcc aggactctac cgtgttggtc acggtattga tccctttgat 180  
 ccagagttca acatcgtctc tcccgggtgcc gacatgagca tataacttccc atacactgaa 240  
 actgagcgta g 251

<210> 28870  
 <211> 239  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700943746H1

<400> 28870

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gaaggagtcc aaggacttgg aagagaaggc cgagatgaag aagatgtatg gcctcatcga 120  
gacctacaag ttgaacggcc aattcagatg gatctcctct cagatgaacc gtgtgaggaa 180  
cggagagctc taccgtgtca tctgtgacac aaggggtgcc tttgtgcagc ctgcagttt 239

<210> 28871

<211> 230

<212> DNA

<213> Glycine max

<223> Clone ID: 700893512H1

<400> 28871

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acagtatgag tctcacacag cctttacccc tcttggactc taccgtgttg tgcacggcat 120  
tgatgtcttt gatccaaaat tcaacattgt ctcccctgga gctgatcaaa ccatttactt 180  
cccccccacc gaaactagcc gtaggttgac ctccttccac cccgaaatcg 230

<210> 28872

<211> 239

<212> DNA

<213> Glycine max

<223> Clone ID: 700892442H1

<400> 28872

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ggacaaaatc tcccagggtg gactcaagcg tattcatgag aagtacacat ggcaaattta 120  
ctcggacagg ctcttgacac tcaactggtg gtatggcttc tggaaacacg tgaccaatct 180  
tgaacgccgt gagagcaaac gttacctcga gatgttctat gctctcaagt accgcaaat 239

<210> 28873

<211> 219

<212> DNA

<213> Glycine max

<223> Clone ID: 700892632H1

<400> 28873

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 aacggagagc tctaccgtgt catctgtgac acaaggggtg cctttgtgca gcctgcagtt 120  
 tatgaggcct ttaggttgac tttgggtaag gccatgactt gtgggtcgcc aacgtttgcc 180  
 acatgcaatg gtggtcctgc tgagatcatt gtgcatgga 219

<210> 28874

<211> 184

<212> DNA

<213> Glycine max

<223> Clone ID: 700890513H1

<400> 28874

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 ctggaaaaaa tttgaagaga aatatcattt ctcatgccaa tttactgctg atctttttgc 120  
 aatgaaccac acagacttta tcataccaccag caccttccaa gagattgctg gaagcaagga 180  
 cact 184

<210> 28875

<211> 229

<212> DNA

<213> Glycine max

<223> Clone ID: 700890952H1

<400> 28875

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 tatcaccctt cgtattctca ttattactcg tcttctcctt gatgcagtag gaactacctg 120  
 tggcgaacgt ctagagaggg tatatgatac tgaatattgt tacattctcc gcggtcctgt 180  
 cagaactgag gagggacttg ttcgcaaatt gagctgaaga ttcgaagtc 229

<210> 28876

<211> 235

<212> DNA

<213> Glycine max

<223> Clone ID: 700945284H1

<400> 28876  
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 cactgaaact gagcgtaggt taacagaatt ccactctgac attgacgaag ctctttacag 120  
 ctcagtggag aatgaggaac acatatgcgt attgaaggac cgcaacaaac caataatctt 180  
 caccatggca aggcttgacc gtgtgaagaa catcacgggg cttgtcgagt ggtac 235

<210> 28877  
 <211> 227  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: 700942575H1

<400> 28877  
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 agtatgagag tcacactgcc ttcacccttc caggacttta ccgtgttggt cacggtattg 120  
 atgcctttga tccaaagttc aacattgtct ctcccgggtgc agacatgggt atatacttcc 180  
 catacactga aactgagcgt aggttaacag aattccacac tgcatac 227

<210> 28878  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: 700945125H1

<400> 28878  
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 aatctcttct ttacagctca gtggagaatg aggaacacat atgcgtattg aaggaccgca 120  
 acaaaccata atcttcacca tggcaatgct tgacgtgttg aagaacatca cggggcttgt 180  
 cgagtgttac gggaagaacg cagcctccg cgagttgngt gaactggtgg tgggtggctgg 240  
 agac 244

<210> 28879  
 <211> 239  
 <212> DNA



<213> Glycine max

<223> Clone ID: 700893154H1

<400> 28879

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 aacgccgtga gagcaaacgt tacctcgaga tgttctatgc tctcaagtac cgcaaattgg 120  
 ctgagtctgt gccccttgct attgaagagt aaattcatgt ttgaagagaa catcaatgga 180  
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<210> 28880

<211> 235

<212> DNA

<213> Glycine max

<223> Clone ID: 700893118H1

<400> 28880

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 aacgccgtga gagcaaacgt tacctcgaga tgttctatgc tctcaagtac cgcaaattgg 120  
 ctgagtctgt gccccttgct attgaagagt aaattcatgt ttgaagagaa catcaatgga 180  
 gaaaccggct tttggtcggt tgaagtctta tggagctttc ataaataacg ccatt 235

<210> 28881

<211> 142

<212> DNA

<213> Glycine max

<223> Clone ID: 700945968H1

<400> 28881

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 actcagtgtg ccattgctca tgcacttgag aagagcgaat accccgaatc cgacatgtac 120  
 tggacaagat tgggagagag gt 142

<210> 28882

<211> 254

<212> DNA

<213> Glycine max

002220-032200

<223> Clone ID: 700945788H1

<400> 28882

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cgttacctcg agatgttcta tgctctcaag taccgcaaatt tggctgagtc tgtgcccctt 120  
gctattgaag agtaaattca tgtttgaaga gaacatcaat ggagaaaccg gcttttggtc 180  
gtttgaagtc ttatggagct ttcataaata acgccattga ttttgattgt gatcagcttt 240  
tggatttaaa gagt 254

<210> 28883

<211> 161

<212> DNA

<213> Glycine max

<223> Clone ID: 700888936H1

<400> 28883

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<210> 28884

<211> 244

<212> DNA

<213> Glycine max

<223> Clone ID: 700893166H1

<400> 28884

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accgcaaatt ggctgagtct gtgccccttg ctactgaaga gtaacttcat gtttgaagag 180  
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<210> 28885

<211> 214

<212> DNA

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<223> Clone ID: 700895166H1

<400> 28885

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tgcagccttc ccccgcccaa ctcttaacaa gtcaattgga aatgggtgtgc aattcctcaa 180  
ccgtcacctt tctgccaac tcttcacac aaca 214

<210> 28886

<211> 269

<212> DNA

<213> Glycine max

<223> Clone ID: 700889179H1

<400> 28886

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cctcactgcc aacaggaatg aaattttggc cttctgtca aggatcgaag ccaagggcaa 180  
gggcatcgtg caacaccacc aggtcattgc tgagtttgag gaaatccctg atgagaacag 240  
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<210> 28887

<211> 221

<212> DNA

<213> Glycine max

<223> Clone ID: 700891526H1

<400> 28887

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attcagatca gagtcaggaa ctctccgtaa atggatttca aggtttgatg tgtggcctta 180  
tctagagact tatgcagagg atgttgccag tgaaattgct g 221

<210> 28888

<211> 256  
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<223> Clone ID: 700942858H1

<400> 28888

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 ccaagattgt cgatgatcag tccatacttg aagatgaacc aagggttaaga gaagtactaa 180  
 tgtttgcaaa tgcattgtga gctattacaa ctacccaaaa gggagcaatt ccggcccttc 240  
 ccaaagagga ggctgc 256

<210> 28889  
 <211> 247  
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 <213> Glycine max

<223> Clone ID: 700892801H1

<400> 28889

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 tcggctgagg aagctcgtaa gcaaatactg agcatttggg agaaggctga tttgatcaag 180  
 gtcagtgatg cggacttgag ttcctcacag gaagtgacaa gattgatgat gaatctgctt 240  
 tgtcatt 247

<210> 28890  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700891914H1

<400> 28890

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tcagtgatgc ggagcttgag ttcctcacag gaagtgacaa gattgatgat gaatctgctt 240  
tgtca 245

<210> 28891  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700942816H1

<400> 28891

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aatttttgat tttgaatcta tcaggaaact gctgtcatct cctaaattca cattctgtta 180  
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ggcacaagaa agctctttac tgaac 265

<210> 28892  
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<212> DNA  
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<223> Clone ID: 700943365H1

<400> 28892

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gctcttcaat gtttcacgcg tagagaccac tcccttcgat ggccagaagc ctggaacctc 180  
tggtctcgcg caagaagggtg aaagtgttcg tgccacctca ttacctccat aactttgttc 240  
agtc 244

<210> 28893  
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<223> Clone ID: 700888547H1

<400> 28893

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cggatgaagt agtgggtgctt tatgactctt tggcaccgac tcttgacggg tctttggagg 180  
tgaagaacct cttggacaag cttgtggtgt tgaagctcaa tggaggcttg gggacaacta 240  
tgggtgttac tggcc 255

<210> 28894  
<211> 249  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700895203H1

<400> 28894

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tttgtgggtg aacttaaacg cagttaaaag gcttggtgaa gctgatgctc ttaagatgga 180  
aattattccc aatccaaagg aagttgacgg aataaaagtt cttcagctgg aaactgcagc 240  
tggtgctgc 249

<210> 28895  
<211> 253  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700889518H1

<400> 28895

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ggacatcatg cttccctaaa agttgctaata catctatagt tctgagcctc gttcatcctc 180  
aaggggacca tcatcattgt atcaaaaccc ggtgttaagc tataagttcc cgacggtgtt 240  
gccattgtag aca 253

<210> 28896  
<211> 243  
<212> DNA

<213> Glycine max

<223> Clone ID: 700890552H1

<400> 28896

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 aaaaatctag tggccatatt tcaatctatt gtggatgaga gaagaaactt aaggaaggga 120  
 tatctgccag gaaaagccaa agatatgatg gatgctctga tagatgttga agatgatgat 180  
 ggaagaaagt tgagtgatga ggacatcatt gacattatgt tgatgtactt gaagtcgggc 240  
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<210> 28897

<211> 277

<212> DNA

<213> Glycine max

<223> Clone ID: 700943040H1

<400> 28897

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 ctctcccccg ctgagctgta tgagcaagcg attaagcacg agaaaggatc attcataacg 120  
 gcaacgggag cgtttagctac actttctgga gcaaaaacgg gacgctctcc ccgagacaaa 180  
 cgggttggtca gggacgacac caccgagcat gacctctggt ggggaaaggg ctgcgccaat 240  
 attgaaatgg acgaacatac cttcttaatc aacagag 277

<210> 28898

<211> 254

<212> DNA

<213> Glycine max

<223> Clone ID: 700888213H1

<400> 28898

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 agaaagagct gttgttactt gaactccttg gacaaggctc tcgtcaatga ccaattcttg 180  
 aattgggaca cagagaacag aatcaaagtc cggattgtat ctgccagagc ttaccattca 240

ttgttcatgc acaa

254

<210> 28899  
<211> 178  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700888666H1

<400> 28899

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gctaaagcaa agacgagcaa ctgggcagga atatgctgac ttatgcacga atttatgaca 120  
gcagtcaagc aaacttatgg ggaaaaagtt ctaattcagt ttgaagactt tgcaaacc 178

<210> 28900  
<211> 240  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700946436H1

<400> 28900

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tggtatcatca ggagtgggaa aaacatttac aaaggaagta attgaggctg tgacttctat 120  
caatgaaaaa cctcttggtt tgccctctc caatccaact tcacagtctg agtgtacagc 180  
tgaagaggct tacgaatgga gtgagggtcg tgcgattttc gctagtggaa gtccattgat 240

<210> 28901  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700893193H1

<400> 28901

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cttggtggta cccttggtcc atactacctt gaagagacag caaattgggg tcttgatggt 180  
aatgaacttc gtcaatcagt tgagcaggct cgctttaaag gaataactgt taa 233



<210> 28902  
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<223> Clone ID: 700888645H1

<400> 28902

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 tggatggtacc cttgttccat actaccttga agagacagca aattgggggtc ttgatgttaa 180  
 t 181

<210> 28903  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700888603H1

<400> 28903

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 atttt 185

<210> 28904  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: 700894006H1

<400> 28904

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 gttaagctca acttgggagt tggatgcttac cgaactgagg aaggaaaacc tcttgttttg 180  
 aatgtagtga ggcgagttga gcagcaactc ataaatgacg tgtcacgcaa caaggaatat 240

attccgattg

250

&lt;210&gt; 28905

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: 700890192H1

&lt;400&gt; 28905

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aactcgctca ccggccaatt cctccgcgcg agctccgtcg ccggagcaag gtcacgtctc 120

tcttcgtcct catggttccg gagcatcgag cccgttccca aggatcctat cctcggagtc 180

actgaagctt tcttcgccga tcagagtcca aacaaagtca acgtcggagt gggtagctat 240

c 241

&lt;210&gt; 28906

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: 700889346H1

&lt;400&gt; 28906

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aagaacttgt gaagggtgct aaggagtatg gtgttaaact tacaatgttt catgggagag 120

gagggactgt tggaagagga ggaggtccaa ctcatcttgc tatattgtct cagccaccag 180

acaccattca tggctcactt cgggtaacgg ttcagggtag agtcattgag cagtcttttg 240

gagaggaa 248

&lt;210&gt; 28907

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: 700943121H1

&lt;400&gt; 28907

ggatttttgc atggactcag acaaggtttc atcttccagt gtggctaggc tttggagcag 60

catttaaaaa agtcattgag gaaaatgtta agaattctcaa tatgctgcaa gagatgtaca 120  
 atcaatggcc tttcttttagg gtcacacttg atttggtgga aatggtgttt gccaaaggag 180  
 atccgacaat tgccgctctg aatgatagac tccttgtttc aaaggatctg tggccgtttg 240  
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<210> 28908  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: 700945580H1  
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 aggcttgaca taaggcaaga gtcagaccgc cacacagacg tcttagacgc catcaccaaa 180  
 catttagaaa taggctcata ccaggaatgg taccggagaa aaacggcagc aatggctttt 240  
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<210> 28909  
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 <213> Glycine max  
 <223> Clone ID: 700943287H1  
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 aatggtgttt gccaaaggag acccggggat cgctgctctt tatgataggc tccttgtttc 180  
 agaggatctg tggtcatttg gagagcagtt gaggaccaag tatgaagaaa ccaaggaatt 240  
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<223> Clone ID: 700890236H1

<400> 28910

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 aaacttggtg ttagctaagc catgttccat ggtcgcggtg gaactggttg aagaggaggt 180  
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<210> 28911

<211> 262

<212> DNA

<213> Glycine max

<223> Clone ID: 700891079H1

<400> 28911

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 cctcggcgga agcgggctgg ccatgccggt ggaggtggtc cagatctgct ggaagtacaa 180  
 tctggatcgg cttcaggagc ttttcaagga agaaggtgtg gaagcaaaat tgagattgga 240  
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<210> 28912

<211> 218

<212> DNA

<213> Glycine max

<223> Clone ID: 700891544H1

<400> 28912

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 aggagtctga aatcgagctc ttgatttgga gaatctctaa gagtggcatc caaatcaaca 180  
 ctaaaggttt caaagacaaa gaatacttca ctcgtgac 218

<210> 28913

<211> 233

<212> DNA

<213> Glycine max

<223> Clone ID: 700888745H1

<400> 28913

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gcagaaagag cagcagatta gtaccatgga gttactaagt ttgatccatt aactggaaaa   120
caattcaaat tcaatgctgc caccagtta tacacaacat actttgcaga ggctttaatt   180
tctgaagcgg aagcttacia agacattgtc ggaatccatg ctgcaatggg agg           233

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<210> 28914

<211> 263

<212> DNA

<213> Glycine max

<223> Clone ID: 700943688H1

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aaaggatact ccagcagagc gtaatgttag attcgggtgt agagaacacg gaatgggagc   180
tatctgcaat ggcattgtc ttcacagccc tggactgatt ccatattgtg caaccttctt   240
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<210> 28915

<211> 259

<212> DNA

<213> Glycine max

<223> Clone ID: 700891885H1

<400> 28915

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catcatcaac cccactacca gaaagactca atacaaagtt caagcttggt cacaagagga   180
ggttaataag gtcattggact tagcaaaatc tgcacaaaag ttatgggcaa agacccact   240
atggaaacgt gctgagctt           259

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<223> Clone ID: 700941396H1

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 catccccact accagaaaga ctctatacaa agttcaagct tgttcacaag aggagggttaa 180  
 caaggtcatg gacttggcaa aatctgcca aaagttatgg gcaaagaccc cactatggaa 240  
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<210> 28917  
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 <212> DNA  
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<223> Clone ID: 700890234H1

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 gtaaaacttg tttcctggta tgacaacgaa tggggttaca gttcccgtgt gattgattta 180  
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 <213> Glycine max

<223> Clone ID: 700893919H1

<400> 28918

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220

<210> 28919  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: 700890465H1

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gtggtcagag ggcactgctg ttaaggttgt cctggtaatg gagtccgttg ccgatgcttt 180  
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tgatatcacc ccgg 254

<210> 28920  
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<212> DNA  
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<223> Clone ID: 700890971H1

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cgtgcaaaaa atgagaggtc tgaataaatc ggtttctgga accagtggat ttaccttggt 180  
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<210> 28921  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700891972H1

<400> 28921

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gggtcaagatg gagacaacgg atttgaaga attggccgtt tggtagccag agtggctctg 120

cagagagacg atgttgaact cgttgccgtt aacgaccctt tcatcaccac cgattacatg 180

acatacatgt ttaaatacga cagtgttcat ggacactgga agcatcacga tgtcacctt 239

<210> 28922

<211> 256

<212> DNA

<213> Glycine max

<223> Clone ID: 700945352H1

<400> 28922

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ctcttgtgga gacaagctac tttgaagtaa caccttaaag agacttcttg gcaacgaata 120

caagaagatc aatgacacgt gagctgtatc cccactcgtt gtcgtaccaa gaaacaagct 180

tcacaaagtt cttattcaat gcaattccag cctttgcac aaaaatactt gatctgctat 240

cgccgataaa gtcagt 256

<210> 28923

<211> 258

<212> DNA

<213> Glycine max

<223> Clone ID: 700944204H1

<400> 28923

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gctccgcaat tatcatgggc aaggtcaaga tcggaatcaa cggatttggga agaattggcc 120

gtttggtagc cagagtggct ctgcagagag acgatgttga actcgttgcc gttaacgacc 180

ctttcatcac caccgattac atgacataca tgtttaaata cgacagtgtt catggacact 240

ggaagcatca cgatgtca 258

<210> 28924

<211> 257

<212> DNA

<213> Glycine max

<223> Clone ID: 700945903H1

<400> 28924



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 ggctctgcag agagacgatg ttgaactcgt tgccgttaac gaccctttca tcaccaccga 180  
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 tctgcagaga gacgatgttg aactcgttgc cgtaacgac cctttcatca ccaccgatta 180  
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 cgatcctttc attaccaccg attacatgac atacatgttt aaatacgaca gtgttcacgg 180  
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<213> Glycine max

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cgatgttgaa ctcgttgccg ttaacgaccc tttcattacc accgattaca tgccatacat 180  
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<212> DNA

<213> Glycine max

<223> Clone ID: 700894550H1

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taaggacaag gctgccgcac atttgaaggg tggtgccaag aaggttatta tttctgcccc 180  
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<212> DNA

<213> Glycine max

<223> Clone ID: 700893834H1

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atacatgttt aaatacgaca gtgttcattg aactggaag catcacgatg tcaccgttaa 180  
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<223> Clone ID: 700890650H1

<400> 28930

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 gaatggaaaa ttgactggta tggcattccg tgttcccact gtggatgtct ctgttggtga 180  
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 aatcagaggg ca 252

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<223> Clone ID: 700944452H1

<400> 28931

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<223> Clone ID: 700892371H1

<400> 28932

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agtacaagcc agagcttgat attatttcca atgctagctg cacaaccaac tgccttgctc 180  
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 gcactgtgtg tcctcaaccg ttgactcatc gttgaccatg gtcatgggag atgacatggg 180  
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 ctatgcagtt ggaagcagtg gaggatacaa gaagggtgtg acagaagcaa aactgaaggt 180  
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 ag 242

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<223> Clone ID: 700891638H1

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 agaaggccgg catggttcct cttcaaattg aattgggtgg aaaagatgcc tgcattgttc 180  
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<223> Clone ID: 700890918H1

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 tttgagtttg ataagtttgc cacaggaaca gaggttatag ccaagaaact ggcagagctg 180  
 agtgggaagg gagtgacaac catcattgga ggaggtgact ccgttgccgc tgtggagaag 240  
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<210> 28938  
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<213> Glycine max  
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 tgctgctgat gctaacagca agactgtgcc ggcatcaagc atcccagatg ggtggatggg 180  
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<210> 28940  
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 tgtaatttgt gctttatatt attattatgg ttggatttca gccaacagtg gattgaggta 180  
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 ag 242

<210> 28941  
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<213> Glycine max

<223> Clone ID: 700945115H1

<400> 28941

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tcttgtaccc cggctttctg agctcattgg tatccagatt gtcaaggccg aggacagtat 180  
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<210> 28942

<211> 266

<212> DNA

<213> Glycine max

<223> Clone ID: 700946208H1

<400> 28942

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catcccagat ggggtgatgg gggttgatat tggctctgat tccatcaaga catttggtga 180  
agcattggat acgactcaga ccattatttg gaatggacca atgggtgttt ttgagtttga 240  
taagtatgcc acaggaacag aggcta 266

<210> 28943

<211> 256

<212> DNA

<213> Glycine max

<223> Clone ID: 700894670H1

<400> 28943

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gtgagggctg atctgaacgt gcctttggat gacaacctta acatcaccga tgacactaga 180  
gtccgtgctg ctgttccac catcaagtac taactggtca tggagccaaa gtgatccttt 240  
ctagccactt gggacg 256

<210> 28944  
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<223> Clone ID: 700808471H1

<400> 28944

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 gctttgtttc aaaataactt caataaccca tcgtccttgc atttctctct aaaaaaaaaa 180  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaaa agagagaaaa gaagagaaaa 240  
 gaaac 245

<210> 28945  
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<223> Clone ID: 700894434H1

<400> 28945

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 agcatcaatg acattacctc cattgctagc aacggtggaa gattgcaatg 170

<210> 28946  
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<223> Clone ID: 700946185H1

<400> 28946

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 cctcaagtcc atggctgggt tccccaccag aaagaccaac aatgacatta cctccattgc 180  
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247

<210> 28947  
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<212> DNA  
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<223> Clone ID: 700894533H1

<400> 28947

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tcctacctg 249

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<223> Clone ID: 700945939H1

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<223> Clone ID: 700946365H1

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 gcctcaagtc catgctggct tccccaccag aaagaccaac aatgacatta cctccattgc 180  
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<223> Clone ID: 700894558H1

<400> 28950

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<223> Clone ID: 700945189H1

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<223> Clone ID: 700943511H1

<400> 28952

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<212> DNA

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<223> Clone ID: 700941416H1

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<211> 255

<212> DNA

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 agacgttgca gactc 255

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<211> 256  
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<223> Clone ID: 700888545H1

<400> 28955

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 aggaaaagcc gtccctttac caatgccttc tcgtttttgt gttagtcttt aactcatctg 180  
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<223> Clone ID: 700941185H1

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 aggtcttt 248

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<223> Clone ID: 700946269H1

<400> 28957

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agctgctatt acaactgttg atgt 264

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<223> Clone ID: 700888375H1  
  
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acca 244

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aagatcttca actg 254

<210> 28960  
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<212> DNA  
<213> Glycine max  
  
<223> Clone ID: 700889521H1  
  
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 aaacaagggt tccagctatc aacagtcccc aaacctctgt cttaacgaga ggattctttc 180  
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<210> 28961  
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<223> Clone ID: 700891749H1

<400> 28961

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 gaagtcaacg gcggggacaa tatcgacgag ttggagcctg gacagctgga gggcgaagaa 180  
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<210> 28962  
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<223> Clone ID: 700891658H1

<400> 28962

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 tcgatggatt cagtgaatcc taaatatata ctgaggaact atctctgcca gactgcaatt 180  
 gatgctgcag aaataggtga ttttggagag gttcgcagcc tgct 224

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<223> Clone ID: 700891187H1

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<400> 28963  
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ctattaaaga atctaaagat gaaatcaatt tttccttgg aagtgctggt actgcgatgc 180  
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<210> 28964  
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<223> Clone ID: 700942983H1

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aacttggtgc agatgttgat tgctttcttg gcacaaactg tccacctgtt cgtgtaaact 180  
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tgactgcttt gctta 255

<210> 28965  
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<212> DNA  
<213> Glycine max

<223> Clone ID: 700941055H1

<400> 28965  
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gcaccagaaa gtgcaatgcc atatggaaag gaagctaaaa ctgaactgac caagattggt 120  
caaggcaagc ctttgaggat ccttgtttat gaggaagatc gttatggtcg ttctgtaggt 180  
gatatctatt gtaatggcat tttgtacag gaaatgatgt taaagaaagg tttagcatgg 240  
cactacg 247

<210> 28966  
<211> 319  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001a01d1

<400> 28966

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ccgccctttt tttttttttt tttttgtaac aagaatatat tagttattta cattagaacc 60
aaaagttaca ttgcaaagtt gaaaaaaaaa aaataaaaaa gctggcaaga aaccaccatt 120
gggaacaaac cactagagtg ccatttggtt tttgggttat tattaactaa cccttttcta 180
ccaaaagatc tctagattga acagaagaac ttgagagaag aaggtataga catgctctat 240
atgctataga gaaaaatctg tgaggccaaa agcaaattgc ttgaacttgc tccggaattg 300
caaaattaca agaaccatg 319
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<210> 28967

<211> 462

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001a09a1

<400> 28967

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ctgggaattg ggatttgccc tcaacatatg tggagaagtg tgacatttac agtggggagt 60
gggtgccaaa tccaaaggca ccatactaca caaacaagac atgtagggca attcatgagc 120
accaaaattg catcaagtat gggaggcctg actctgagtt catgaagtgg aggtggaagc 180
caagtgagtg tgagcttccc atattcaacc cttttcaatt ccttgaaata gttaagggaa 240
aatccatggc ttttgttggt gactcatctg gaagagatta taggcaatcc atgattggcc 300
ttctttcaag ggtagaatgg ccaatagagg tatcatacac tacctgagaa tattttaagc 360
gatggaagta cccaagttgt aactttacca tgtgcagctt taggacactg catttggcta 420
gatccagaat tggctgatca catggaccaa gactgactag cc 462
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<210> 28968

<211> 532

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001a09d1

<400> 28968



ataaaagaaa taattttatt atggcacgca taacaaatTT tatctttata aaattacaaa 60  
 aaaatattac caatgatagt ttacaagaaa aattagttaa taatacttat aaatttagct 120  
 tattgcagat ctcatgccct ccattctcaa catttctagc aagaaatcac tccatgtgtc 180  
 tatgggtcct ggcaggcacc aatgcacaca atcattatat aatgttacgt tctcttTgtg 240  
 ccaatgtcca tatctacttg gatgaccatc tgggtctcaat aacattgctt gtgtgggtgc 300  
 aagtaacttc aatttcaaac ccttctttct accttccttt tcagctttct tgaattcctc 360  
 caattggatc atatataTct ccaaattagt gctctctaTt cttgtctcat tgctcctaaa 420  
 cggttagtt ctgacacaat tcccaccttg attccatttt ccattctcaa aatgagatgg 480  
 tgcaaatgtt ctaaggaata ctattccctt gaaattttct aaactatcga ta 532

<210> 28969  
 <211> 519  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400001a10d1

<400> 28969

aatgtaaatt ttcttgatga gtctgacgat taaagattct cagtaaattt acagctttct 60  
 gtttggctat aaaccacctg tcaactagact aaacttctat ttcgcgatct ttatcattga 120  
 gatttggggT gtttccttcc cacaactcaa gtagttccct tttcatccaa gagatcacia 180  
 ctacaggtcc caaagtagaa ggcaccagat aaagaagtgc aggttgaggt gagtgagtca 240  
 agacaccagc agccaaagca gttaccaggc caatggcata cccgggtagc gcataccata 300  
 tgtatttTgtg cccctttgag gaatgtaact ctaagagatt tactggatcc ctgctcttgc 360  
 gataatcaaa gcagaggact aaagccagta gcatgcctgg gatagccatg tctcctaaac 420  
 caagcatcat gaagtctgtc gcattctctc caggaacaac accaccaac aaatttctag 480  
 gaaaaacaat ctttacaggc aactctaant tcttagtta 519

<210> 28970  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400001a11d1

<400> 28970

aagttggaaa tctctcaatt gatattttta ataaaaataa caaactaata tctgctcata 60  
 aaaaaaaagt aaaattggca tgactaagct tataatataa tacgatttct tattctttcc 120  
 actgtatgta ccactattgt aatccagacc ttgcaatttg caattctaata taattaattg 180  
 acccttctgc aattgcatct gatctctccc ttcttcccag tgagaggctt catgttcccc 240  
 atcttgatca tggaagcttt aaaatctcta gcaaaaacca aagggttctt actatacagt 300  
 tgcaccaatt tgtcactttc tgtgcctttt cccttgaaca gctcttgatc agaatggaga 360  
 agaccctttt tgtgcagcaa attcgtgtaa tatgcagtgt caactctcgc aggagtagca 420  
 tcaaatggat gcaagttgtt gtctcctccg ctctcgggac atgtcttctt cgcagatgct 480  
 tgcaaatttg ggtctattat g 501

<210> 28971

<211> 527

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400001a12d1

<400> 28971

aaatataagt ataaaattta tttagagcaa gatagtacaa aatatagatg ctggcaacgt 60  
 cagggtttttt cattttcctt ctctagaaca tctttccaat accatcctgc ctaggaacag 120  
 attcattgac atccattcgt tgccaattcc caacaaaaga agccaactga tgcaccttgt 180  
 catacaatcc taggaggcca cccgtatgta tgaagaggat ctttctcctt tcccacttct 240  
 ttggattttc agacatatct ttcagcattg cataagcagc cttaccactg tatactgggt 300  
 caagaacaac accagtagtg gcagcaactt cttttacaaa attaagctcc tccgatgtat 360  
 tcattgcata gccaagaccc ttggcgtttt gaatgtggac aatatctctt gagctaacgc 420  
 cagccttgag tccatcaagc aagccttgag caaagttgtg gaagtaatct gggatcatcac 480  
 anacagagaa tgcattgtacc ctngctttca atgcactcaa tgacgat 527

<210> 28972

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001b01d1

<400> 28972

cgtccttttt tgctttgttt tttttttttt tttttggaga ctttcaaata tatacactaa 60  
atgaatcaat aaagtacaat aaacgttgat tatgacttgt tttatgaatt gatcctttac 120  
agtaaatagc aacttgatta agtacaatat atatacactg tcacagaata tttcctataa 180  
gaagtggatt ttgacatata cataaaaaat taagcagtga aaataccgct gttattggag 240  
caccttgaac tccattctat aaaggcagtc cagtttcaaa ettttatctg aagggtgga 300  
cttacaataa gtaaattatt gaggcactcc acaggaactc ttgttcccca cacattcatt 360  
gatttgagct tcaaacattg atcaactagc gcaaaaagcc cattctttcg tacatga 417

<210> 28973

<211> 547

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001b09d1

<400> 28973

gataaaatag tttattaact tctgatagg aatacacaca taaaaagtac acgagagtac 60  
tttgtagatg tttaggcagt gctacttcat ggcattatta tcagcattgc agattacagt 120  
ggctggatgc tttatttata ttggtagata ttatttccag cagattattt aattactcat 180  
ggcaccaaat tgggaaatca accatcaact ttcattgtctg tctctggaag ccaggggaat 240  
ggcagtggtg gtttagttgc ttccagaaga acctcaatgg gaatctttgg tgcagatggc 300  
ttcaatggtg ttatggcgtg attatacttt tgagggtttg cacagtaatc ctgatctgca 360  
tgcattctta gcacaaattt tttgaatata ttaaaatttg atttttgcag tagatcatct 420  
gatagacgaa ggtatgttac tccgaacatg cttagttttg gagggccatt gttgttgaca 480  
ccttgcggtc ttgcattcag tatgatttgg ttgtaagctg tggcatcata ccttggaagt 540  
gcatttt 547

<210> 28974

<211> 389

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001b10d1

<400> 28974

aaagaaaaaa cttccttaaa agggaaggcc atgttttgaa ttttgcaccc aaagcttcgg 60  
 aaaacaaagg gaatTTTTTTT cccttttgaa ttccaagtgc cttgcagggc atacttaagg 120  
 gaaaacgggg aagttgttga atggggatgg attgcccaca gcctTTTTTTT gccaaaccaa 180  
 aggcttaatt taaccccaaa cccgtgtcca gaaaaaaacc cattttttaa gaaacccgaa 240  
 attaaaaaaa cttaccattt gggaagaggg gccccattcc actccccagg ggtttccaaa 300  
 aggggatcaa ggatcttctt tgggcacaaa gcagggaaca cttgtgaaca ctttttacct 360  
 ggggggaaaa ccttttaacc agttagcaa 389

<210> 28975

<211> 531

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001b11d1

<400> 28975

caagaaagta ttttagttaa ttttaagtcac aagacattag taagatggca actggcaaca 60  
 ttacatcaat acctgggtccc aaattttcgt tcaatcacac aaagaacagt tacaaaatta 120  
 actactagga ataggactaa gattacaccc aaacacgggt tatatgtcgc aaaccacaag 180  
 atacactgga acaagagaag ctttgttgaa gctgcaatag acctcatgtc aaaacttgga 240  
 aaattgagtc caaattagcc aagttgacca tccccatcac aactcctatt tatgaataat 300  
 cggaatcatt taattggcac ggcttttgaa cacatcaaga cccatctcag taggatcagt 360  
 tgcttgacgc tcaatctgaa ttccatcaag ctccctcttg aatctatctt tggagctggc 420  
 ataaatcatc ttgctcctaa ccctagatgt atcagggggac caagcaatga agaaaattct 480  
 gctcttttgg caattctctt cagtgacaaa atcaaaatca taaacagcat a 531

<210> 28976

<211> 432

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001b12d1

<400> 28976

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aaggaattca ttcattaaag cgtgtttgtt tggtagaaca aaactactag cttaccagg 60
aatgagtcca ctcatTTaag tatacttaaa aaaattgaac gaggtatata cgtatccaaa 120
ccataaaaga aaaactagtt tgataacatc atttttccaa acgaaattaa ctaacatatt 180
cagtttgatt tggcattgag attagcacca actttcaaga ttgatcgcaa aggcttcatt 240
ttctttggag catgaggtaa atttcccacc accaccactt tttcatcaat gctggtcctg 300
catggaatat tcttctttac acatgggtatc tctggctgca ctactttgtc tgcattagcg 360
ccaaaacctt ttggtgtaat cttcacctta gttgagcttg aatcgtaatg tgaagatctt 420
cctaaagtta cc 432

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<210> 28977

<211> 394

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001c01d1

<400> 28977

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ctatttttat aatatatagc accacaaaat acaatttgct aaaaatatag gtttcccttt 120
ggaaactgaa gggaacataa ctaaagtgtg tcccagggtc tattaactaa accattaaaa 180
cagcattgct tatctatgta gagatttaaa attgggtcatg aagagttata taggattaca 240
ttgcttatta aaatatttat atattaggca attaaggggt ttaagggcat ttgggtcctt 300
cttccttggg ctttcagctg gtgtaacaag ggcgaatttg tttgttgcca tatgtacccc 360
gaggaacgca ttggcatttt gcccaacact ttg 394

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<210> 28978

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001c09d1

<400> 28978

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 ttaatattaa acaataactt tgacatcata aattcttcca aaataattat acaaaagtga 120  
 caagggaaaa ccgatctgc cagttgccta ctgaataaaa acacacatca ttactatgtg 180  
 ttggcataca cgcgatgacct tgtgccttgt catgagtga tttccaaag caattgggtcc 240  
 tttatgcctc cttaatcctt atgccacaaa atgctatcat cccttgaaag ttgtaattgc 300  
 ttcttcagaa atagatttat acaaaggtag ttgcaatata tttttgcaa actaaaaatg 360  
 taaagacctt ttttcccaat cctagtagtg tccaattgt atttacaag gcgggacaaa 420  
 atatgtatat acaagtacaa tcatatagca taatgtaaca ataatacatc tttgggtctt 480  
 actggtgcac attacaggaa ttattatgca ctgaaacccc tttgca 526

<210> 28979  
 <211> 527  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400001c10d1  
 <400> 28979

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 ctaaaaaccc aaagccaatg gaaagaaagg agcataaacg tgaaaaagaa aaacaaattg 120  
 acaatcacgg tttttcctaa gcttcaacaa actgtacaga atactgggac aaacgtgctg 180  
 ctgtcaaata agatacacag atacatagat caagaatatt aacaccatgg actgcacaat 240  
 ttggttggca ctgataaaga caactaaata tgcagaatat cagtattatc ttatggctaa 300  
 ctgttaagcc tgcaaccatt gtccatacaa cttattcatc taactcctct atctgtgccc 360  
 gcttctcagc ggctatcttc ctgataaaga agccccacct cattgctgcc ttgatcttca 420  
 gccatccac aacagctctg cctgggagag agcgatcctc atcatagttc ggtatactgg 480  
 gagatggcat gaatgatggg aatgaaaagc catccttagc actcatg 527

<210> 28980  
 <211> 543  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400001d09d1

<400> 28980

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atgagatctt ccctagctag ttatttcctc tctgtaagtt aaagaacaaa atcctacaat 120

gaagtaaatt aatcaaatat gtattctcta tttacatttt ctattccact cactagaggg 180

atacataccc aaatacaaca aaaaaccata tttgaaaacc aaattcattg ctgaactaag 240

aatttggcga tcaaactcac ccaagagtga cagcggctgg aaatatgaat gctacacaga 300

cagcagctgt tgctccagta aactggaaaa tatcccaaat gctgggtata aaatttgctc 360

ccaggaagat aacaccaata agtgaaatag taattgatgc aaatctgaag ttatcttgac 420

gcaaaggcct atatgatgaa aatacgagac catctagggt gacccgcact gcatagaaga 480

caactggaaa tacaagcaca agatgcgcaa catagctaaa tcgaacagcg tcattgagca 540

cag 543

<210> 28981

<211> 435

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001d10d1

<400> 28981

ggggagaata caagggaact tggaatcaca aaagatttta ccattatttt caaaggagac 60

ttttttggac aatatgggtc tgcactcact agacatttcc catttggtat ggccctaccg 120

gacacataaa tacatgcagc atttaattag aagaagaaag tacgtacgta ctggggccatt 180

ttgatgaaga tttggttttg gtttgctatc aattttgggt tttggttggc gaggaacctt 240

acaaggggaa acgttcacct tccacctttc gagagaaaca tttttggaaa atactagga 300

gataaaattc aacccaaga acctaaattt gagcccgtgg tattttggca catttataga 360

ttggaaatct tacccttaaa tttctttgat ggacaattaa attcccgtgc taatgccctt 420

cttccttcat tccta 435

<210> 28982

<211> 527

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400001d12d1

<400> 28982

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 ttgctaacac aaatactaca acaaaccttt gataaacctc atgaattatg tagttgggtc 120  
 tctgcccatt attcttttga aaatcttaac aagaaatcta cattaaaata tcaaaaaaat 180  
 ttctcgacga agtactccta tgtttatata agtttgatcc atcagatgat atcctcgatc 240  
 gtgctagtat tactgaactt atctgttga acctgacaga acatcaaaca gtccacagca 300  
 actcaaccag gaagtctttt gcaccacagg tggaactgat gctacaagtg gctgattatc 360  
 agagcattct ggagtatcag aatctttaac atgttctgca tcaatagtag attcagggat 420  
 aggactctga gacactgatg ctgatacttc actgtcaaat tcccttggct taggttcctc 480  
 caaacttatt gatcttacat tntcatcaga ggaggaatgt tctttat 527

<210> 28983  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400001e01d1

<400> 28983

ggagtgttta catctttatt taataatctt cgttggaaga gtacaatcat taattatttt 60  
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 acacacagag gattcttctt atgctgggta actcctggca acacttcagt atcaatgtct 180  
 tcctttttca ttccttgagg caattcccag tcaaaggaat taagaagatt agcaagtata 240  
 agatccaatg cactaaatgc catattcata ccagggcaca atttacgacc agcaccgaat 300  
 ggaataaact caaatcttg tcataaaga tctatgtcgc aatttaaaaa 350

<210> 28984  
 <211> 516  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400001e10d1

<400> 28984



aatccgacat gagttaggac caatttccat ttcattgtaa ttctaagtgtt ggttgaacgc 60  
 ttgcaaccat gaatacacat cgttggtgaa attttcacct gatatatata ctggtccttat 120  
 tgtgagaaaag gaaaaagaaa aaaggacagt gcctagcact atccactgta catgccaacc 180  
 acctaagtat accttttcac aaccctgata ctctagagta tgtaacagct ccttcaacag 240  
 gttgaataaa gggaaaacgg taaaaggaaa ataaatatgg aaaccatggt aaaaagaagt 300  
 ccaaagtatt taagagagtt gtagaaatcc tccgcctaac tcctgttacc agagccaagg 360  
 ctttcataga acaaaatgta cccatggtct gtattacttg aatactcctg tgatgatcca 420  
 aagaacgtct gcacagcaga ctctgcaatc atctctacat tttcgtcatc aaaaaataac 480  
 cagtgggttat ggcttttcac aagactgaca taatgc 516

<210> 28985  
 <211> 435  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400001e11d1  
 <400> 28985

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 aagaaacttg aagctggcct gatcttcggg ctctagggg ttatcctagg aatgaaagat 120  
 caagttccaa aagaataatt tgacaaaaga atttgttttg accaaaaata aacaacagct 180  
 ttttaccggg gggggaatat aaaaaatcca aaaatttttt tccagcttga tctttaatgg 240  
 tccaatttga aagctggatg ggatcatttg ttagaccctt gaaattctat ttctagattc 300  
 cggggggggc cacttttact ttggggcaac aaagcatact ctccagcttc tgagccaagc 360  
 ttaccactc gatcaatctg gattggaact ttcccaaatt tactttttcc cactttgctc 420  
 ttatttttgc aagaa 435

<210> 28986  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400001f01d1  
 <400> 28986

agtaagaaaa gacatcaaat ggacatttat tgcatttctc actcttctat catccgaaag 60  
 atttctttac ccttgaaagt caagtctaga gaatggcccc cctaaatatt tttttataaa 120  
 ttaaataaat caataaaacg taagtccaaa aaaaaaaaaa tcaaaacagt gagatgggga 180  
 ctgcattccc atccttttaa aatacaggaa actccttagg cgggcttaaa aggaaacaaa 240  
 tgaaaaaaag aaaaataaaa aagaaaagaa aattcattac cccaacgaat ttatgagggc 300  
 tttaaaactg aaaactagcc aatcagcttt tgcagcaaca gacttttgaa gttgaacacc 360  
 cgggtagcaa acgaacatg 379

<210> 28987  
 <211> 539  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400001f08d1  
 <400> 28987

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 catcatcaaa gaaatgcaga atttgtctta tcaaagtcac aaaaaataaa agcaaaatcc 120  
 aatttcagtg gttactcttt ctgccattct tgccaacatg gtgcaaccac ccaatgcctt 180  
 tgagggcctt ggaaaatttg agaaggttag gcttccccat tcctaaattc atcttccctg 240  
 tggagaattt caaggcctgt aagcagcaca acttagcctc catgtcctct tcttctctt 300  
 cctcatcctc ctactattc tcaacctcac ccttcttctt ccctttcttg gtgttgctct 360  
 tcttcagaac cttgttggtg gactctgtct catatgtctc ccaaagcatg tccattcctt 420  
 cactcccatc tgcattgtgc ctctcctcaa aaagcttaca agccaaggtc ctctnccact 480  
 ctntctccac tctcattgaa ccaaaactac caagtgcgtg attattattc cccatgcct 539

<210> 28988  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400001f09d1  
 <400> 28988

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 gggaaaaaaa aaaaaaaggg gggggaaaag gaaccaagaa aaaaaaaaaa aaaaaaaaaa 120  
 aaaaaagggg aaaaaccggc cccgagaaaa aaaaaaaagg gggggggaaa aaaaaagaca 180  
 ggaaggagaa aagggggaaa aaaaaaaaaac cccccagag gaaaaaagg ggggggaaaa 240  
 aaaaaaacgg cgaaaaacac aaaggaaaga agaaaggggg ggcaaaaaaa aaagcgcccg 300  
 ggaaaaaaa gggggccac cataaaaaaa gaggggagcc cctatggggg ggggaaaaaa 360  
 aacaacaaca aaaactggga agaaaaaagg acccccacg ggggaaaaaa aaaaaacacc 420  
 taaggggggg g 431

<210> 28989  
 <211> 525  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400001f12d1  
 <400> 28989

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 acacaaagat aaaagtagtg ccacaaggca tttttcttaa tgcaacaaag agtagtccaa 120  
 gggaaagaaa agaaagatta gatctcagca ggcacacggt tgtataaatg tgaggggagc 180  
 ctaggagaaa ccacagcttg tattggagtc ctcatgtatg tgactagccc tggattctct 240  
 cccatgtcaa tttcctcagg cttcattcct tcaggtgggg tccaacagaa atggtgcaag 300  
 aggtggccca acatggatgc tgccaagttg ataccaagtt gggcaccgg gcatactcgt 360  
 cgacccgacc cgaatggaag tagcctaaag tcatggccct tcatgtctac atcctcctca 420  
 aggaaccttt cgggtcggaa ctccaatgga tccttcaca cggtcgggtc gcgggccacc 480  
 gnccacacat tcacatgcac attggaccct ttgggaatgt catag 525

<210> 28990  
 <211> 549  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400001g09d1  
 <400> 28990

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cgaagcataa aagcaatgca tccaaattaa aaccacatcg gtactggtag acatctgaac 120  
atcaaacaca acagaaaaa gaccacaaga acaagaatct gaagtagatt ctagtagtct 180  
tcacccctctt cctggccctc accagactca gcacccactt cttcataatc cttctcaagg 240  
gctgcaaggt cctcacgggc ttcagaaaat tcaccttctt ccataccctc acccacgtac 300  
cagtggacaa aagcacgctt ggcatacatg agatcaaact tgtgatcaat gcggccaaac 360  
acttcagcca cactgggtgga gtttgaaatc atgcaaactg ccctctgcac cttggcaagg 420  
tcgccttcag gaacaacggt aggtggctgg tagttaatac cacacttgaa accagtaggg 480  
caccaatcca caaactgaat ggtcctcttg gtcttgatgg tggcaacagc agcgtttaca 540  
tctttgggc 549

<210> 28991  
<211> 378  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400001g10d1  
<400> 28991

aagaaatggg gaaagaatat taggggaagg gcccaaaaaa aacaatgaac cacaacaaaa 60  
aaatacacia taccccaaga accaaaaact ggcctaaggg caaaaacaat acggaccctt 120  
ccagggccct caacacacia atccaccact acgacacatg caagccaagg cctgaaaggt 180  
ccaaaagggc aacaaaaact aaatcacagg gccgacccta acaaacagac caacgggcaa 240  
aaccaggcgt ggcccaaaca aaatcccccg ggcgaacaac cccgtcaaac agttgggcca 300  
caaaggaaaa aggccgaacc cggcacccca accaaagaaa tttccaaccg aaaggtcaaa 360  
ggcaaccgcc ccggacac 378

<210> 28992  
<211> 553  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400001g11d1  
<400> 28992

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tcaaactaaa agctctacaa gagataacca tcccttaact aaacagttgg atttagaaat 120  
acaaataaag agaactccct tctttaaact attcacgttt tggaaagacg agcaatttac 180  
ggaaggagga gcagggaaat attttttggg aagagaaata tgtttataag gaaatgacca 240  
gaccacctac acggatgatc aaaatcatca gaacctacat aaatgctatt atcatcagtc 300  
cattctctaa tcgtcactct cctcctcgcc actgccttcc tcgtcatcat cctcatcatt 360  
cacctcagat acagacttct cagattcttc ttcaccccca ccagtaggac cttccgcctg 420  
tttcttggtta taagctctca tgttcttctc gtactccact ttccttttct cagactttgc 480  
cacataaggt gctgtttcag catcagacat cgtcttccag tttgctccag cagctttgcc 540  
cacagcagac act 553

<210> 28993  
<211> 516  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400001g12d1  
<400> 28993

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ttgttcggtg caaacgttgc aatgtttatg tgcgtaacgg ggtaatacaa aagataggaa 120  
caagtattgt ttcagcttaa cacgaaagga caacacacac aaactttcct cattcaacaa 180  
attgcaacat ccaactgcaac atgtaacact cttacaaagc atttccttca cgaagattag 240  
aaaagaaaaa aaaaaatact tgcaagctca gaaaaacaaa actcaatata tttcaagact 300  
aaaaaatcgg taatgatttt caagcaatat tgtgggtatgg ttttaataata atagtataat 360  
ctatatatat gaaggcaaac attatgcagc ttgcttgagc ttctttgtga tgccggcaat 420  
gtacttgctt tgggtggaatg cttgctgtaa ctcgagctca cttggctgtc ttgagccgtc 480  
acccgcataa gttccggcac catatggact tccacc 516

<210> 28994  
<211> 469  
<212> DNA  
<213> Glycine max

**Q**uestions **A**nswers

|       |             |
|-------|-------------|
| <210> | 28995       |
| <211> | 535         |
| <212> | DNA         |
| <213> | Glycine max |

|       |             |
|-------|-------------|
| <210> | 28996       |
| <211> | 490         |
| <212> | DNA         |
| <213> | Glycine max |

<223> Clone ID: jC-gmst02400001h11d1

<400> 28996

gagtaaagt aaatattatt atctgcctca caatctgggt acaaaccata acattacctt 60  
 cctcgcagaa aatacaaaaa gcctatcaaa actggccttg caagcttaaa tataacccca 120  
 tatataatat agacaatttg gggaatattt aaccaaaccg cctaaccaac aaaaaaaaaa 180  
 aaaaaaaaaa aaagcaaatt caccaaactc aattggacct ttactacggg ctaccatttt 240  
 taaaccttcc ccaaactcaa tgtaaacaca ctggacatag aacaagttaa aactggcact 300  
 atgatgccag tgccccgatc gcaaatacagg gcattcggtg acagcattac ctgtggcatg 360  
 gaaagtgatg atgtaaaaaa ttaacccaag ctccaaaagc ctttttacc tttaggggaa 420  
 tttacccctt ggtcttggcc ctcttcatac caaggctgtt gtggaagggt gaaacagaac 480  
 cagacttggg 490

<210> 28997

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400001h12d1

<400> 28997

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 atacatacaa atcaatttac aacggcaatg ctgagaagat tattgaggca aatgaactgc 120  
 atatattcta atacaatgca caagagtacg ataggatttc tacagaaacc ccgttgatgt 180  
 tttagaacaa acgtagctat attggaaata gaatgggata acgttctaag tacaataatt 240  
 ttataggaca cggccaaatc atcttatgga gttgaaattg taggaattgt attgtgaatt 300  
 ggaaaatgta gaagaccgtg ctttatcaga tttgggtgaa gtttaggaat aggttttctg 360  
 aagaaagtct ctggcttaaa aaatgacttt ggcttaaggg ataggtttta caattggaaa 420  
 tggtttaggt atgggtacac aaactggaat aggaataggg ttaacaatag gaacaggctt 480  
 tggtataggc ttaaaaa 497

<210> 28998

<211> 348

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400002a01d1  
 <400> 28998

gggtataaac attactttaa aatggggcat ggtgaaaaca gggtttaact cctatgaaaa 60  
 ttggacatta cattatcagt ggcaatggaa acaaataagca tttgccaccc ccaaaacatt 120  
 cattcactaa tcataatcca ctaacagcaa aagctttcta ttcaactcat ttcattaatc 180  
 ctcaaaatgt ttttacctgg acaacaaggg caaattatag gccctaaaa caattctggg 240  
 tttgggtgtca aagggcacca ctggggggcac attttcaaac ccaaacttgg aaggttggat 300  
 caggatattta gccctgaata tttcactctt aaaacaaata ttcctttt 348

<210> 28999  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400002a03d1  
 <400> 28999

aaaaaaacat gatgctacat tattcacctg tttgacgatc aaatcaatac ttatatggct 60  
 agtgttatac aaaatactct ttaaaaagaa aagaaacatc aatctataac taacactaga 120  
 atagcttggg gcgtcaccat ggtacgacag ggggtgtgagg aaaaaaccca tctgaaattt 180  
 ttaggacaaa cagacagaca acacttttct ccatattaca aatattgggc gaaaaacaat 240  
 ctgcaaaaat ttctaatacat ttctgaaaa ctaccttcag taacagcttt taataacaat 300  
 cgatgtgaaa gctgcagaca cagcaagaaa ttgtagaagc acatatcaaa accctgcacc 360  
 tgaaatctag agatggcaac agtctgtgta cattgatagg aggatcagca atcactactg 420  
 caagatgcta atcacatgaa aaatttccaa aatcagcaaa aagatatctg gtaacttttt 480  
 aacttagtc 489

<210> 29000  
 <211> 531  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400002a05d1



<400> 29000

aatatcaaat caactgttgt taaagttcgt ttacgtttac agattataaa aatttacaac 60  
 acttaatgta gtccatataa aactgaaagg agtcccatta acagttgcat accgtttgtc 120  
 aaaagcatcg acagataaca aaggtacgag gggaaagaaa accccaccta gaaacattgt 180  
 ggcgttccat atggccttgaa ggcaatgatt cttcaaattgt catacaagaa atccttaaac 240  
 agcttcatat ggtcaggctg aagagctatg gccacagata ggctcccatc attgggtgag 300  
 cttggaatta tgaaagatag cccctcgtat gcaattccac cagggtcccat gaattattggc 360  
 cttccccaac caaagtcagc atcatggatt ggaagcctag tccagctagt gataccaagg 420  
 tttggacact tgaaagtatg agccccacga accagcgctt ttagatcggg ttgcagttct 480  
 agatagtcaa gagccgatct caaataatcg ttgtccattc gtaacaatgc a 531

<210> 29001

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400002a06d1

<400> 29001

aaagaaaggc agcacgtatt atttcaattg ttaaataaga aaaaaaatat gatatcaatc 60  
 aggctaacaa aattaaacat gaaatcaaag acaaagaaac ttcaaacttt tgaattgaaa 120  
 caccatggcg ataaacccta tcaactcccag gaaaggaaga cacatatttc ctttttctcc 180  
 atttctgcac tttgtgtcga acttgagtga cacaatttag tagaaagtgg tatgggtgaa 240  
 cctaatacctt gtacttcatt tcagatacca ggaagccagg catgtcaaac aaggcagaga 300  
 acttctcaac atcagctttg agatcttcaa tagccttggt gttgacgaga cccttggtga 360  
 aatccttgag aagtttgcca tgctccttct ggatctccag tgtgagagtc acagcacggc 420  
 gaaggaactc accaatctgc tcaaagtctt tttcaaccaaa acccctagaa gtcattggcag 480  
 gggcaccaat tcgcac 496

<210> 29002

<211> 366

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400002b01a1

<400> 29002

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ctggtcgaga gcaaaaggcc atataatttt tttttatttg aaataatgtc cgggatcatc   60
cacaagattg aggagaccct gcatgtggga gggcacaaga aagaggagca caaaggagaa  120
caccatggtg agcacaaagg tgaacacaaa ggagaacacc atggtgagcc caaaagtga   180
cacaaaggag aacaacccca tggggagcac aaggagggac tagtggataa gatcaaaggc  240
aagatccatg gggaagggca tgacaagggt gagaaaaaga agaagaatga caagaagaag  300
aaagagcatg ggcattacca tcatgggcat agcagcagca gtgacagcga ttagatctta  360
tatgtt                                     366
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<210> 29003

<211> 433

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400002b02d1

<400> 29003

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cacaaaatgc aatgagtaca taaattcaaa atcaaaatac attacctaac tagattgact   60
gccaaactaaa tgaaatatTT gctcctgtcc aaactgtccc aaatcccaca tcccagtag  120
caacaaaaac tcaaaaaaat atcaatgatg taagagcttt attactctac tttgaaactt  180
gatgctttta ttgctttaca tgattatcat gtgaccctgg tagtcttcca ccagagaagt  240
aaccatctgc tgataatatg atgagaaaag aaactgcaag ccaagaagaa accacaaaat  300
agcatgcgtc atagcttaca tcattgagga ttattggtct acgtctgtcc caaggtcacc  360
ccaccggaca ttgtgtctgg ctgcaagata gtgagcacca acaggacccc tactaccata  420
aggatagtac tct                                     433
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<210> 29004

<211> 439

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400002b03d1

<400> 29004

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aaagtatcaa cccaaatata tatcatgtta tctgttaaata tgagttatta tacaggaatc 60
cctactaaaa tggacatcgc actacctctt acgaaaaaag agtaacctta gtgcaagcac 120
cccaacaaaa tacacaattc aaaatacatg gcagccaatc acgaccagct ggcagtgata 180
gcactacctt aaattatcat tccctcatct atgcgtagaa ttattagaca agcaaaacaa 240
cactgcacaa tgcgggtcccc gccgacaaga tgcgatctcc agcacatata ggcacattcc 300
acacgagcga tacatacaat acacccccctc aaaaaccaac aaacaatcaa ataaactaca 360
aaccggatat caaactcaat ccttgctggg tgaagtaggt ctctgggcac cggggggggc 420
ggttggccta gggaaatta 439

```

```

<210> 29005
<211> 498
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400002b04d1

<400> 29005

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aaagtattaa cccaaatata tatcatgtta tctgttaaata tgagttatta tacaggaatc 60
cctactaaaa tggacatcgg actacctctt acgaaaaaag agtaacctta gtgcaagcac 120
cccatcaaaa tacacaattc aaaatacatg gcagccaatc acgaccagct ggcagtgata 180
gcactacctt aaattatcat tccctcatct atgcgtagaa ttattagaca agcaaaacaa 240
cactgcacaa tgcgggtcccc gtcgacaaga tgcgatctcc agcacatata ggcacattcc 300
acacgagcga tacatacaat aactgcctc aaagaccaac aaacaatcaa ataagctaca 360
aaccggatat caaactcaat ccttgctggc tgaagtaggt ctctgggcac cggggggggc 420
ggatggccta gggaaattat aatcaaattg catgccagca aagcgcgag ccttcacata 480
ggggctctga gacaaaaa 498

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<210> 29006
<211> 512
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400002b05d1

<400> 29006

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agatggataa accaaagtag catttcattt atataatggt tcgtacggga caacggggaa 60  
 gtgagatact gaattgtgta taatacataa ctatttgatt gtcacatat accaaactca 120  
 tgtagatggt tgataacttc ctactttgct ttacctttac cctttccttg accttttttg 180  
 gcttctaact tggcttgac acgtgcgga gccgctgctt ttgcttcttc tctcttcttt 240  
 ttctcctcct ctttggcagc agcagctagc tctctctgct tcttcagttc atcaagccta 300  
 gccctcctcct ctgaaacact tcccaaactg gagcccttcc ttggccgaca ggcaactagc 360  
 tcaacttcaa aaacaagtgt tgcacatgga ggaatatctg gaggagatcc tgcactacca 420  
 tatgcatatt ctggcttgca agttattttt gcaacttctt caacctttat ggttttcact 480  
 gcaatttccc aagccttgat aacactgccc tt 512

<210> 29007  
 <211> 538  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400002b06d1  
  
 <400> 29007

gaaattatgg tgtcatattt ttttaagagt tttaaaacgt tataatacta gaatagtcca 60  
 ctttttagca atatcaacgt ctaactcaat tgattaaact aaacattatt tcaaactcct 120  
 gttacctttg ttttaattcct atatataaat aaaaattata tagattattt actcttttgt 180  
 ttatcttcaa cttttattta tttgtcataa atggagacat ttgctcttgt gtaaattaaa 240  
 aagtttctta gtacaatttg tctttttttt ttttgaggat ggggtggtgt atgaaaaggt 300  
 gagatgttca ttaaatggac gtgcacaacg tattccttca cgatgagttg caagaagtgt 360  
 tcatgaaatt gcgtctcagt ttccatgttt tctaattaac catgtatggt ttacaagttg 420  
 agtaagccat tatacagatt aaaacaacct ccctattatt ttntgttcac attgcatcat 480  
 tctaatttaa agggacttct gtttcaactt agtatttctt atcattccta gaaatatc 538

<210> 29008  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400002c01a1

<400> 29008

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 accgacccgg ccacgccctt caccgcagcc gccccggccc cagcaccctc cgcacccccg 120  
 acagacatca taagaatcct caaaaaggca ggagggttca caaccctaata cgcactcctg 180  
 caggccacac aagtctccaa ccaaatcaac tcccaactcc tcaccacaag cggaggccta 240  
 accctatttg caccaaacga caatgccttc tccagcctca aaccgggttt cctcaactcc 300  
 ctcaacgacc aacagatgaa cgagctcatc cagttgcact agcttcccac gtacgtttcc 360  
 gtctctaaat tcgacactgt atgcaaccct gtgagaacac aggcacgtga aaaccctgat 420  
 aggtttgcgc atgacataac angcttctga cggaaccaag tgaacatgac aacgg 475

<210> 29009  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002c01d1

<400> 29009

aaacaaaact tctgtatcat tttctattag atcaaatatc ttcgtttgca agttatacac 60  
 aaattttctca taagtaatac acgagatatg aagtttttct tatagggggg ttgaagagaa 120  
 ctagtagaac gaagaaagcc ttcataaaat caaatacaat ttccacccaa acctgaaact 180  
 tgaatcatta gagagtaaag agaaattaag aaaaaaaaca attattttaa atcatatctg 240  
 caaaatgttg atcattcacc tttcaatcca cccaatatga taagccttca atatgcttca 300  
 tattacattc tcaaaccctt cattgtcacc acgtaaattg tgccactaaa agtacaacac 360  
 ttgcaaccca cataacatgc cactgtttca cgctgacagc atctgattca gcatcatctg 420  
 caggagtagc agtgctgtcc acagatttct tcttagatcc tttagccttt tctggcgctc 480  
 gaagccgagc gggaggctta gcttcgaaga agtccgagga agaagcaact tgtccacctg 540  
 atacaccgag agctggtg 558

<210> 29010  
 <211> 491

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400002c02d1

<400> 29010

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 attatcatcc tttatcaggt tgcctaccct tacactttgg aaccttttaa atcatcaatc 120  
 acagcttggt ttttgttgat gcaacaatcg aaccatact ttgatgggtt gagatctcaa 180  
 accacaaagc catgagtgca agtgacacat ctcgttcaat aaaaactaga taactaataa 240  
 agtatagttt gtagtaataa ataaataagc atactctttt aaatgaatct atacgtctgg 300  
 acgctcattc tgatcaaaaa tacgattatg gcaagtaggg ttgcaagggt aggcacaatc 360  
 tatctcacgg aagggccttc gatcataaaa ccaatcaccc actgcctttg caattgatgt 420  
 cttggccacc actggggagt catttctcag ccatgtctct tgtattccag tttggcagtg 480  
 tgcatagcaa c 491

<210> 29011  
 <211> 451  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400002c03d1

<400> 29011

ggcaaacgat atggcctttt gcatttgacc caatttatta ctcataaaaa tgaggctaag 60  
 caagagagat tagtttcaag aggcatagag tggatgaaag tacaattaca aaaacgagta 120  
 gtattctctc ctttactatt tgatatgtat tatgactaaa gctgttaaga aaaacgaatg 180  
 aaaagaattc cattttcacc catttactat cttggctgtg ggtgggacaa ggcttgggtt 240  
 gtgatgggtt attctgctgt tgatgaagtt gagggcagca cgccttttgt ttacgacaat 300  
 ttagtttggg ttggatcctt caaggctgtc tattgacttc atgtattctg atgcattgtt 360  
 ttctatgatg agagcatcct ctaactcccg gacaatgtca accatgtttg gcctctacgc 420  
 tgaaaaaggt cttgactttg gctggaaact t 451

<210> 29012  
 <211> 474

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002c04d1

<400> 29012

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cattgaaatt ctccatagag ttcccatgta taccctgcaa gaacttatat accataattc 60
aaacataagt tgcacacaat gtgcaaaaaa ataatggacc aagcaatctg aagtctgaac 120
aaagttcaga gtcaacatca acatctagat ataaaagtag tggcatgaaa tttaaaggcac 180
tctgttttat attcagcata gactatattg cggcttagaa agagatgaga tcattctttcg 240
atgacggctg cttctttgtc tcgtgtcccc catctgatgc ttccccacct ttctttccaa 300
aatcatctc atcgagatca tccatcatgt catcattgct cctccctcg acaccagtcc 360
ttgatccagc tggctttcga atcaaagcat cttctttact atgatagggt gactcgtctg 420
gttcaacagc aacaggatat atagctggtt caggatgaag tgggtagttg cagg 474
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<210> 29013  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002c05d1

<400> 29013

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gtgcctaggt ttccgttgag cataactcca atccgaacaa tattaataaaa tttcataaat 60
gtaaaccaag ccttgtcaac ttgagttaag aagcgctcct tcattcaccta aaccgggaga 120
cctttggatt tagataatga ataaacaaat tcggggggagg gaggcagggt aggggaaacc 180
tctgtcagtc aggttcgaca atttactagg ctagaaacag aagacaaggc accaagcacc 240
agaatttcct gggtaaattg tgccaatttt ttttttcctt catggacatg gtatttgcct 300
gaggacagag agtcacatac atcatgttgc caagcccgtt gtcttataaa tgggacacag 360
attcttttagc attagccact gtatgatata gctgctatgg aaatcatggt cacaatcaag 420
cgttccaata tcattcccat caccataatc ctactgcata cgacgtatat caagtgatga 480
gaccaatgtg cacaagcatg cgggggatct aaataagtca gc 522
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<210> 29014  
 <211> 545

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002d03d1

<400> 29014

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tcgcgatcta gaactagctt tttttttttt tttcagaatc agggactagg ttttattaac 60
acaaactgct gaaaaaagaa taaaatatag agaatacatt gacatagact tacatgaaaa 120
atacagaaaa ctgtatacag aaagcagaaa ctagcttccg tctaagagat gggacatcaa 180
tcttgtgtaa aggaaaattc taaccttagg caatttcagg attgtcatta tcaaccaaca 240
ctacatgtac atgagacaga tgagcaccat ttgaaaacac catcaagaag tcatgcttcc 300
ctgtttttgcc ttaaggacaa gctcttcagt ggtggtgcc aatgatatcgt tagcccgttt 360
tagcccgaca cattgatatc gaccaacaga atctcgagta acaattccca atttctctaa 420
tttctcaaca gcatcatcca catcaaaatt acattcctca tcaaactctt ctttgattag 480
ttcctcacac cattgatcaa gatcctgtct tgtagctttg ccctgttcca tcagaataaa 540
gaatg 545
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<210> 29015  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002d04d1

<400> 29015

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gagcaactgc acacaggata tagttcatag agaatagaga tcaaaggggt cgataacaga 60
gagaatatac agattctttt tttgtgacat gaaaaatcct taggctagta gtaactgcga 120
tagcatgaca agtatcaaaa ttacaattaa gttggattca ttcgacttcc acgatctcat 180
ccaaagcata gttgtttggt gatacattgg catagttgac tttggtgaat cgaaccacaa 240
cagggtagcg agtggtgggg tcctgatcaa cagcaaccac tgaaccggtg cctttgtacc 300
agtaagattc cttcctaaga atcttcacct tagcacctct cttggggcca ataggtggtg 360
gctttggttt agcttcagct tcagctgggg gtgtggcggt ggcggggtgcc gccgctgcag 420
gctcatctga agcctttaca acaaacctag aagtgttggt cttggtgttg aacatgacca 480
cccttgagtt tgttgtggca gctgcaaca 509
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<210> 29016  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002d05d1

<400> 29016

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 cccaagaatc ccccccaacc acccaaaatc aaaaatttac ccccgatgaac cgaatataaa 120  
 aaattaaaag ggtacaccga cttaaaaaac caciaaaggca aaagtccctt aaaacccacg 180  
 aatgccaaag ggccccctaa aaaaaggaaa gtaaaccgaa accccatgag gctcaaaaga 240  
 aaaaaaaacc ctacgtggaa aaaccgttaa tccaacctgg ccggaaaaaa ccccttaacc 300  
 agtaccgttg gggcaaacia acaaacacga cccccgagg ataacaaacc atgggaaacc 360  
 gccaaaaaaa actcccc 378

<210> 29017  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002e02d1

<400> 29017

atgagaaatc taagctatat tttctagagc aaaaacaaga ctttgcaaac gctaaccctg 60  
 tttccttgct tttaatagca gaggatagaa agtaaagctt acaggtttct atttttgaaa 120  
 tacatgaaaa acattagtat aagaaaagtg tgtgacaata caagaaaaca tagaaaagaa 180  
 ctaagtagaa ctggagcatg tttatgggtt agtatgttca gtctttcatc tctgtgtgtg 240  
 tctgtggtga cattgaagat gaccttgatg acattgcaag ctcccttgga acctgttcca 300  
 tggtagggcg agatcgtggg ctttcaggca agcaagcaat tgctatcttg acaattgata 360  
 tcacctcctt atcaataggg cttgttgggt gtggaagacg ttcgtacaat ttaaccatca 420  
 atgacatatg atcaagtgtt gaggtcatag tggacgaaga tgatagcaat agagaagatg 480  
 taacattacc aggggtgcttt tcaaacaata tttgcaacgc 520

<210> 29018  
 <211> 499  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002e04d1

<400> 29018

caatcaaggg cacttgggaa ataaatacta agggcagcca ggtccttata tgaagttata 60  
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 ttattttcat agtttatatc ccaaaacata gttttatcct tgaagaaata cttaaagctt 180  
 tccatcccaa agtttttcca aggtcttgca agaccattt tcagatagcc atatgtcccc 240  
 tgtgtattgc ctgcgttggtg gaacctgact gatcctctct aaatcctttt cactcagcac 300  
 aaaatcaaat atgtccaggt tctgcttcat cctctcgctg ttgggtgcttt tagccatggc 360  
 acttgaccct tgttgggtaca cccatttaag tgcaacctgg gctatggcct tcccttttgc 420  
 ctttgctatt gcttggagga ttggattttt catgacagtt tcagagcccc aaaattatta 480  
 taagcaccaa aacttacca 499

<210> 29019  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002e05d1

<400> 29019

ccatcatatc attcattcag aatcactttc catgcttccc atagccttca accctcttgg 60  
 tctcttcttg ttacttttct tctccctaac ttcatatctc tcttggcaca tatcagtcaa 120  
 ccacgccccg ggactcacca aaagtaagct tctttgaatg attttggccc tctttttggg 180  
 tcgctgagga agcttgcaac ccttcatggc cagaaaatct tctcttttct ccttgcttga 240  
 gagagtgatg tagagcttgg gccaaactag ggctcgttct tcgccgttga tgccttcgcc 300  
 gccggtgacc ttgccgttct cttccgccga accccgcgtc gtgtagtacc ggtcctcctt 360  
 ctccggcgac gccgatttcc ttgtctcgcc ggccgatgac cggagaatcg ccccgctcga 420  
 attccttgta aggcgattaa gttgttgatg atgatgatgg tgatgatgtt ctttttctgg 480  
 cacagtgagg ccagagcgat ga 502

<210> 29020  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002f01d1

<400> 29020

ccattaaact gttttcatat tatgtcttca aagcaaagaa cacacaatgt tctgaaatcc 60  
 ataatccac atcacatggt aaaacataag aacacatcag atataccaca atcacatata 120  
 caactcagat tatatatgcc caacacatag gcaggcacgt aagacttgac acttgagact 180  
 ccaaccgctc agaaaccatg aatcttgata tgctccttct tcacgatacc agcctggacc 240  
 aggaagggag aaacattctt cctctgatca ccttgaagtt gaataacctg tcctaattct 300  
 gggtcctgaa caactggtcc attgcaacag aactctttct taacatcttt aagtatcttg 360  
 gtatagctga attctttt 378

<210> 29021  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002f02d1

<400> 29021

ccattaaact gttttcatat tatgtcttca aagcaaagaa cacacaatgt tctgaaatcc 60  
 ataatccac atcacatggt aaaacataag aacacatcag atataccaca atcacatata 120  
 caactcagat tatatatgcc caacacatag gcaggcacgt aagacttgac acttgagact 180  
 ccaaccgctc agaaaccatg aatcttgata tgctccttct tcacgatacc agcctggacc 240  
 aggaaggtag aaacattctt cctatgatca ccttgaagtt gaataacctg tcctagttct 300  
 gggtcctgaa caactgatcc attgcaacag aactctttct taacatcttt aagtatcttg 360  
 ttatagctga attctttttt caatccctga acggttgatc ggcttttctt tacatttcgc 420  
 tgctgtacgc gaatatgcac atactccttt gaccagcac ccgagtcac agcatttgca 480  
 tcagcaaaag gatcgaaggc agtaggaatt tgatcgcta attc 524

<210> 29022  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002f03d1

<400> 29022

ctgtgtaagc agcaccaaaa tagttttttt ttttccttta tacaaaatcc attagctag 60  
 ctaaattaaa aatgggcact ataatattta gtttatTTac accgaaacca cattattaaa 120  
 taatccaaaa catcacgcac catcatcatc atcttcttgt tcttgTtct catcatgttc 180  
 tttcagatcc gagaggctcc tagacttgaa gctcccaaT cttgctctca tgtgatcaac 240  
 ataagactta ggaacccaaaa catgatcttg tttatTTtct tctgatgaat aagaagaaga 300  
 agaagatggt gacactTTTT tgggcttctc ttctcttcc aaaaaattgt cttcatcttc 360  
 atgaacaggc aaaaggggca tcgatTTtgg gttggaccaa gcgtaaaaag aagattttct 420  
 tgtcaacttc gtggctatTT gaaccctact tctcttgTtg aaagggTtct cttgctcttg 480  
 aagttcttca ctgcgttgag tgagttcact tgtgatagaa ccgtgaatga c 531

<210> 29023  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002f04d1

<400> 29023

aaaaacaaag aaaaaatctt tattttatTT gatagataat ggaatcaaaa tatataatta 60  
 caacatatct attcacatgc accagttaag tacttgGcga aaattacaaa catgtaactc 120  
 atcataaagc tagtactagg ttacaatgcc aaaaacgaca ggaccgtgtt caagaagcaa 180  
 gcatagtaaa gaaacaaaaa caacccttta aattcatcat aaaatataat ttcaacacgt 240  
 acatgataag accaatcaaa catgaatagg agccaatatg ccttgcaatt cactgcatca 300  
 taaatgccac aatagaaacc aacacagaag aacataaggt caccacagaa acagacaaaag 360  
 caaacctgc accagtctcc atttgcgatg tgggtgcaat ttctgattgt gccacagttt 420  
 tggtcacgta aaacatgctc aaaaccattg ctgcaataaa aaaatgagct gcacagtctc 480  
 caagttttgc catatt 496

<210> 29024  
 <211> 273  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002f05d1

<400> 29024

atggggggacc caaaaaaaaaa aaaaaaaaaa aaaaaagggg tcaaaaacaa aattggtggc 60  
 cacaaagggg ggaaaacatt agggaaaaag ggggaaaacc caaggggacc gaaaaaggga 120  
 ccaaaaaaat ggaatgcagg ggggcctcca caaaggccag gggcaaaggt cggggcataa 180  
 gcccaaacct tgggggaaaa cggaacagaa aggggtcaa aaggggtctt aaaagggccc 240  
 ttgccaagga aaaaagcccg aaaaatgaaa caa 273

<210> 29025  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400002g01d1

<400> 29025

ccgccctttt tttttttttt tactttcttc tcatcattac tcattgacaa ttaggatttt 60  
 taccggggcc tccatagtaa aagtaatggc cccaatcccc attactgcct gtttggacat 120  
 cataacagtt cgattgctca gtgaagggtgc caatgccttt gggagccttg agattattgg 180  
 agctatcaac cacttgaatg tttctgaagt agcttgcttt gccaaaaccc ttttcagggg 240  
 aatgaccact tcccatttga gttgatgtgt gctgaccatc aggctcagaa ttacaactt 300  
 cacctcccca ctcaatcatg gaagcactgt cagccaaata tgagaacagg aaagaaggcc 360  
 aataccccaa tacatagtca tttccaaatt gcatccacca gtgtccctct ttaggatcct 420  
 tccagataag tatactgata tcgaatagng agtttcygta tgcagaaact gangaaatgg 480  
 ttgcacca 489

<210> 29026  
 <211> 535  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400002g03d1

<400> 29026

gataatgaat agagaatact acattgctca tcttcatatc cacatttgaa aaagtaccca 60  
 tgctcagttc catatttgtg aagataacaa caattctcaa gattccatcc ctattcttac 120  
 cggttaccct aatgtaagga aaacgataat ttatagtggg atttggtaga agcaaagtgt 180  
 tatctgcagt tggaacttgt cacttgggcg gacaaagggt cagggagcga attatagaca 240  
 gacaaaaccc ctacgaacag ttgacacgag aaaagatatg gcattaaagt aatttctcta 300  
 cataagcttt ttatatcatg gttgagccaa ttttgccaaa ataactaagt ctaaaatctt 360  
 cacatccaat gtgtcatcta cctttacaat tccatccgta ccatctacac caatcaactt 420  
 gccggttgca ccacgcaatg cccacccat aatctttatt ttgtctgatt ttcttggtac 480  
 cacagcctcc atttcattag gaagggctgt aatcgittca ccattaccac ttgat 535

<210> 29027

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400002g04d1

<400> 29027

ctcaaaaaat caaaatcaaa atatataata atactgaaga attgcaccgt tttgacaaaa 60  
 caaactcctc gccttctcca aatcattact ccagagaata acgtaaacag ataacaaaag 120  
 ttagaataga atgaaagggt tacaagcaag cagcatttct tcccgaggaa taaaacagct 180  
 atctttttct tcaataaccc tatcaaccaa acaattttaga agcactttct atgaacaatt 240  
 gatggccag actcgtcgta ctctgccttc gcaatccaca tctgctggaa ggtgctcagg 300  
 gatgccaaga tagaacctcc aatccagaca ctgtactttc tctcaggagg tgctaccacc 360  
 ttgatcttca tgctacttgg ggctaaagca gaaatttctt tgctcattct atcagcgatg 420  
 ccaggaaaca tggttgtacc ttctgaaagg acaatgttac cgtacagggtc tttctgatg 480  
 tcaacatcac atttcattat g 501

<210> 29028

<211> 500  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002g05d1

<400> 29028

accagacggt tctttttctt tcatttatgt attagcattt acaacgagct ttgagattct 60  
 acaaaatgca ttatagaaca gaggtaaatc tcaagtccta tggagagact acttgctcaa 120  
 ttaaaagtca aaaaggaggc aaacgctcga accagtcaagt ttcattctcca agcagaagag 180  
 gtggccatat gtctgttcat ccagccaaga taaagagcac catctctatg ttcaagccta 240  
 taattttgac tgaactcctt tagaagattt tgggtagcaa ccatcactga agaactcaat 300  
 tgacactggt taaatccagc catggaaagt cttgacctcc actttccaaa aagttcatgc 360  
 ctttcacccc tctcaacccc ctcaaacgct atcatgttga ccatgtctcg tgccacgcag 420  
 tgctgctctg cgctaatact cttcttatca tctctggggc aagccacatc tatagattca 480  
 aacattgcag tataataatc 500

<210> 29029  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400002h01d1

<400> 29029

aaatacgctt tatgggtttt atttattggt ttttgggatt cgggcgttca tatttttctt 60  
 tactaagcta ttaatttgat gaaatctgta caataacaag ggccaccagc caagtagtga 120  
 taccatagta ctacactatc agcagagata ttgttcaatc tcagtaatga gtctgaaaga 180  
 aacggtataa tgcattccaa ggtatatagt ggttccgtaa actaaaatgt ggtgcccag 240  
 aatctaagct aggctactta aagtcatttt atttaaaata gtctgttata atctgagcac 300  
 tgactccatt acagggaagc tcattctcaa tagaactgca tatgcataac ctatgagcac 360  
 acgggacacg ctaggatggt gggggcat 388

<210> 29030  
 <211> 476  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400002h02d1

<400> 29030

gagattacat ttcattaatc ttgaggggga aacattacat aaaatcaa ataatcaatcg 60  
 tctaaaagat accaaattgc attcaacaac actataactt tagacagcaa aaccgagcga 120  
 ctacctcaa aaaaatagca agaaagcact tcaagtactc aataggacac aactctcagt 180  
 ggcttgagag gaaaaatttg actatggcat tttcatacag gaatatgttg tactaatgta 240  
 cataaatcac ctaagtaaaa gaaaaaggta aaacaaagat gtgaagccac caaatcgact 300  
 tcaaatttaa gccaaaaagt ggtccagatg gtcgaaccat accttcctca attgaaggaa 360  
 tgaaacatga aaaccgcacc aataattatg gagtgctggg gaaaacgatg ggttttgtgc 420  
 atcaccttaa tgaccctga tcattgggct tcataaacca tgaggaaagt tattga 476

<210> 29031

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400002h05d1

<400> 29031

gtaaaagcac taattgcaac caattgttcc agtttcatag tagtaacca aaaaacatga 60  
 aaagtgaagt acaaatgcat ggtgagacac agctaataca agctactaaa acaagggaca 120  
 gagcaaaca gtagaaaata ctaatgagca ataccaataa ataaaagcaa acacaaatcc 180  
 gaccaacaaa aactaatgac cccaaatgaa gattgtccta atgaaaatag aattttcatc 240  
 aaaacttatc tgccctgtcc cttttctgtt catgtgcttt caaatgtttt tgttatgggt 300  
 gattggtcct cacttggcca tcatgacttt gacaaaactcc tcgtagttga tctgcccatc 360  
 accatcaacg tcagcctcac gaatcatctc atcgacttcc tcatcggtca gcttctcacc 420  
 gagattggtc attacgtggc ggagctctgc ggcagagatg aaaccattct gatccttgtc 480  
 aaacacacgg aaagcctcct tcagctcttc ctctgaatca gtgtctttca tcttgcgcg 540

<210> 29032

<211> 397

<212> DNA



<213> Glycine max

<223> Clone ID: jC-gmst02400003a01a1

<400> 29032

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ttggaattcg gctcgtgccc tttaactcta cattctctcg acacatgctt tgctagatca   60
caggttgttg gttaatagtg ttctgtgtca gaaaatgttg tgaatgagag atgtgtattg  120
ctagcagttt gactgcacag ttgaattagt atgctactaa agggattctg ctggatgtca  180
aatgatgttt aagatttgat atacagtaaa aagaaattgg agactatgga agaaatacag  240
tctcaatcag ataattatag atcttcgtca tcgtcggcaa gcagcccggc aagtaagggtg  300
ccatcaagta acttttttta cctgcgtaaa cctgggtcac ttaggcagtc catctctttt  360
gaggattcac ctgagtggga ggatactgat attgatg                               397

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<210> 29033

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400003a05d1

<400> 29033

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gtcactctag aacatcatta tttctcaatt tatatagctc tttaaccata attccctgga   60
tacaacatgt atactagtgt atacaccata ttcaaagata gctaataaat acttgactgt  120
ataattaata tcacacaaac gttaaagtggc aatatatagt gtaaataatat ataagcttaa  180
tttatacaca gaaacatga gtataaagca tctttataca aaatattcaa caagaattta  240
ctttattacc acatcattat agtaaaatgt catgataaag tggtgaaatt ctattgaatg  300
cttgtgtcaa gatgttttta taggatcaaa gtgtgtatat aaattaaact atatttttta  360
atcaatatat atatattgat cacacatttt atatatatat ataagagggtg cttacaagt  420
tggataggca ataccacaag aactaacggt ttttttgga ttaggagagt taacatactg  480
cttcaagcta ggg                                                         493

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<210> 29034

<211> 561

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400003a06d1

<400> 29034

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caaatcaaaa ctgagaattc aatctataaa taaaacgaaa ctcaacaaca tttgtcttat   60
ccgccaccat ataaccccc cggaatgtcc aaccatagta acagaaaaac acaaggaaaa  120
ggctacaacg tatgaagaac aacctaaatt tacattttta ggcatagaag tcaaaataat  180
aacccttcta attcaggaaa tccaattacc aaagtttttt tcttgctttt aagtccaaat  240
ccaagaaccc aaaattgaca aaaaaaggac agggaaatgt cagaagggtt caggaaaacc  300
tcacttgcca cccaaggatg ggaagtgcc aggatcctca attgatggag ctggagcatt  360
gctgtatgca tttccactgt aacctcctct agaaccacgg ccacgtcccc gaccacgccc  420
accagggtag tacctttccc cttcagctgg cttcagaaac tcagtgatgt tgacagactt  480
cttggaattc tctccttct ccaaagcatt tttgcgtta tcttggtcag atcccaattt  540
aataaagatc tcatcatttt c                                     561

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<210> 29035

<211> 550

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400003a07d1

<400> 29035

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tcacaagaga atgttttgtc ctagttctta tacacatgtg ctagctaatt taattcattt  120
tcagtatttg taagcaggaa agaatcatal aaaaaagaat taagagtcca attcccaaga  180
caaaagacca gtcttatagc aagcgggtacc aaaatctaag acttatctat ggtatcattc  240
tagcataaca cctgcagtac caaacgagat aagttataga accagcatag aaagccaata  300
cttctattga ttggcgcaag ttttaacttta agggacacaa aaaaaataaa ggctagcatg  360
gggtgtcacac tatgccccta taagtcaagg tcaactgtcat taaataatct taagcaacct  420
ccaacttctc tactgatata aatcagcaat caaacttttc cctttctccc atagactgct  480
tgggactttc aaattgcaca ggtgtcacgt ggatattcta cagttgaagg attatcaccn  540
atatcataat                                     550

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<210> 29036  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003a10d1

<400> 29036

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 aactggatc tagtaaagt cctgaaaagt ataaatacta tatatatattgt tcaaaacaaa 120  
 acgacttatt tctaattatc agcacatcat atcatatggt ggatgtgctg tattgacatt 180  
 tttatatatg tacacatcga catgcagtca ttcatagaaa gcccaaattgg cactttataa 240  
 tgaatgtgca aacatgaaga gatactagta cataaataaa atttcacttg tagttattaa 300  
 tttatttatt gtaagaattg atataaaaca cgcagtagca cgtactttgc aacgatacta 360  
 tttgtcatct cagttggatg gaaagagtcc caaaacacgt atttggaagc atctgtgcaa 420  
 ctgaacattt ggccctgct gcatgcataa cccatcttaa acattgcagt agcacaacac 480  
 gccactgag 489

<210> 29037  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003a11d1

<400> 29037

gacatggaat tgtttccatt ctcaaaccac ttagtacaag tacaactact gaattacaac 60  
 aatattccttg acattcttatt agcacaagta gcatcatatt tagcataggg caaagcatta 120  
 agaaaaagca gtagtagtgg tgtaaatacag gactctgac atagaagtgt aattggacca 180  
 aattaatcta tcagagccga agatctaagt caattcttctt aacattctgat gattcttgct 240  
 ttggcaagtc caccggaaag ctacctggcc aatacaaatc cacagcttgt tcaagcataa 300  
 aggggtgtcca tgatgatgcc actgatccaa ttccaacccc attattggca tcattactac 360  
 tgaattctagc caccatagca gacctttctc tgatagggtt gtgcacaaga gagtgaggct 420  
 gaattcccag tgacctagat gccagagaag tgtaagcaag cccattctg tgatgatga 479

0022E0" ETTES60

<210> 29038  
<211> 371  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400003b01d1

<400> 29038

gagaaaataa ggtggaacat taactcatag agtttgagca agcacagtgt caaggactag 60  
aaaatcataa aggttctttt tgaagtctgc tggttattca atcatatata cttttgacaa 120  
ccttttgatt tgcacagaag ccctatctta tctatgatga ttagtcagca gtccaactct 180  
gtttaacaat ctacgtact cttctgtgta ttcacgcttg gtttactgaa catccgagca 240  
gtttcagaat ttgctgggta atttgggtt ggatcacaca gcattgactg gattgaggta 300  
agaattgcag ttccgccata aatagggtc ccctgatttt gtaaaagggtc caagcttata 360  
ctgccttccc c 371

<210> 29039  
<211> 497  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400003b04d1

<400> 29039

actctctaata ctctaaaact atctcattat atcagcttac gggtcacattt ttttaagccat 60  
cttataactg ttcagcaatg gcttggagga acaccgacac atttctggga aaaaaaaaaa 120  
aaagcgggtgg attccacgta cagctgtaga cagtgggaat catatccaat acggttagcaa 180  
aagactccta actataagca acatgcatca aaactagggtg gattcctgat gctcctgaat 240  
cctgggtgatt gaatattgag gacatacatt atcacatagg acgtatcacc ttaaggagag 300  
gatctgttct agcatctaata ccagacaagt aaactagaat ttaggaattc aggtccaaat 360  
ctacacatta aatgtcacca agatggccta acagagaact aggaactaca agtaaaatac 420  
aagcacctac catcatacat aaagagtgc accacctaaa cgagaactag caggtttata 480  
aaatatcgca atgcatg 497

<210> 29040  
 <211> 581  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003b06d1

<400> 29040

ggaccataac ataattcatt ggatggagag ctagccatgc acaccccata gatcagattg 60  
 aaagactaca tgccatgtgg ttcttgtact gagtggttgg cattcgcac actcatccct 120  
 tccctagcta gactttttat tagaccacta aacaaagaaa agacatgcat ggagcaacaa 180  
 gacacgatgc aactaagaaa aaaataccct ctcaaacact cacttaaact gcacatttcc 240  
 cctcttcacg ttcttttact ctgttggagc ctctgtgtcc gtgactgtga cctcctcctt 300  
 cttctcagcc tcagcttctt caatcacttc ctctcttttc ttttcagctg acccttctgt 360  
 ctcaaccttc tcctcacttt tctctgccgg ggctcttcc tccttagctt cagcctcagc 420  
 ctcagcttct ttctcttctt taatattaac atcttctgca gcttctgggtg tcttaatctc 480  
 agcaggatcg gcattttctt ttgttccctc agcagcttct tgcttctcaa ctgtggctct 540  
 gtgtgatgtc tcagcacaac ttctttgcc a ctcttagtct g 581

<210> 29041  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003b07d1

<400> 29041

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 gaaacatatt aagtggacta attctccctg gtcaagcaag aaaaaaacca gctatgaccc 120  
 aaggtagaga gagattatac acagaatact agtaattaac taagactggc tctgcaattg 180  
 ccaaaaaactc cattgcagta gcagccacct gagaagacac taagacctag actagaccat 240  
 acataatgaa gattaatacc cttacataac aacataggac actaagaaaa cacggcttca 300  
 cagagaatcc cagtcgatct cataagaggg gtacttctgg agattaaaat tatccgaatc 360  
 accttccac tgcggtcgc tgacgtcagc gaaagtcaga accgaaagcg gcgaagaacc 420  
 ttcagaagag gaggaag 437

<210> 29042  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400003b12d1

<400> 29042

aagttggaaa tctctcaatt gatattttta ataaaaataa caaactaata tctgctcata 60  
 aaaaaaaagt aaaattggca tgactaagct tataatataa tacgatttct tattctttcc 120  
 actgtatgta ccactattgt aatccagacc ttgcaatttg caattctaata taattaattg 180  
 acccttctgc aattgcatct gatctctccc ttcttcccag tgagaggctt catgttcccc 240  
 atcttgatca tggaagcttt aaaatctcta gcaaaaacca aagggttctt actatacagt 300  
 tgcaccaatt tgtcactttc tgtgcctttt cccttgaaca gctcttgatc agaatggaga 360  
 agaccctttt tgtgcagcaa attcgtgtaa tatgcagtgt caactctcgc aggagtagca 420  
 tcaaattggat gcaagtagtt gtctcctccg cttcgcggac atgtcttntc cgcagatgct 480

<210> 29043  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003c04d1

<400> 29043

ggggggcaaa aaacccccca aaataagagg aaaaccccaa aagaaaacgt ctcacccccg 60  
 gaaggaaaac cgaggggggg ccacaaaagg ggggggccac cttggggagt gaaaacgcag 120  
 cccgaattcc gaaataacgg acccgcgcag gggggcccaa aaattttcaa aaggggcacc 180  
 aaaaaaaaaa ggagggggcc agggtaaaca aagtctggac ggggaaaacc ctgggggaac 240  
 ccaaataaaa agccaggggg aaaaaacccc ttatgccac cgggggaaaa accaaaagg 300  
 cccaaaccag gggactttcc aaaaaggggc cccccataa gggaaatagg cccacccccg 360  
 gagggggcca aaaacccccg gggggggggg gg 392

<210> 29044

<211> 354  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003c05d1

<400> 29044

gtgttgggtt tttttttttt aatactttat ttttttattt tttctatcat ttaaaaaaaa 60  
 taacccccca aaatgagacc aaagggggaa accaaaagg gacaaaaagg ggaaaaacaa 120  
 accaaactta ttttaaaagg gcttcaaaaa cccaatacaa aacaaaatga atctctaaaa 180  
 agggggggga aaaaccacaa aacgacaacc caaaaaaac acttgcaaat aaaaaccccc 240  
 caaaaaaacc ccccccaaaa gggaaaaagg cccccctctg gaaatcaata cccggggggg 300  
 gcttccaaac cccaaagggg ctccaacaa aaaaaacccc tggggggggc gggg 354

<210> 29045  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003c07d1

<400> 29045

atcttgaagc atcaggccta actttaattc ccaatccgaa tagttgatct tataaaagtt 60  
 aagtacaccc aaactttgct agtttttcgg gtaacactcg aagggaacct taatttagat 120  
 ttgtgaaaca cactcaaggt cagaataaac ctctatagtt ataaagttct cagcactcat 180  
 ttaagagatc atggaatgac ttatcaacat tcaggatgcc tgctccaagt ggttcagtgg 240  
 atgctcaaca cttttggtgg ccttataactt gcgcaattcg cctggtcaaa aacggct 297

<210> 29046  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003c08d1

<400> 29046

atcgtgaagt atcaggcctt ccttagaagc agagtaccta ctagttgccc tcaaaaacct 60  
 taagctgacc aacactttac tcgtgaatag catcacccat gtagggaacc ttgaacccca 120

tcttcttaag actctcaagg aaaggggaat cctcaacagg tatcaagctt tcaccagtaa 180  
 tgtatgagat gacgtactgc cctaccatca tcctggatgc atacaccttg aggttgatta 240  
 tatgatcacc acttttgggtg gactgatacc tgcgcaattc accaggtctt gaattgctct 300  
 gaagattcca tggaatacca tgttctagaa tcttagataa ggcttcatac aactagtt 358

<210> 29047  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003c09d1  
 <400> 29047

aacgacaaag caagagacaa cgagttgttg gctcattcat ttggaaagat aaacatcaaa 60  
 caagagacaa cgagttgttg gctcatgcat agcctaagat cacagtagat tggctctgcta 120  
 ttttagctat ataagtctgc atctatgtaa ttgttaccag ctatggatat gagataatac 180  
 agtttcattt atgatataat cgacttttat taaagctagg atcttggctc agcttcacat 240  
 tctagacgag gttaagtcca ttgcgtatgc tacaaaggct gcatgttctt tggtgaaaca 300  
 caacgggggt ggaaattctg aagacattct catagtagcc acccttacca atgagtactt 360  
 ctaattcttg tatatggacc attacatgca gcgattcacc t 401

<210> 29048  
 <211> 357  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003c12d1  
 <400> 29048

gggaggaaac cggcccaaaa ggaattcaaa ttgtacagga aataccatgc ccccaaaggg 60  
 cccaccctaa aaaagtgttc cctaaaaaca ggggggcgga aaataagggg gcaagaaaaac 120  
 acgggcagct ttttaaaaaa aaacagggtg aaacagatgg aagggaaaaa acaaaacata 180  
 actggggctt aagggttttg caaaaaggcc ttcaaagcca cctttttttt tttgggggca 240  
 tgcccaaaaa cttttgcttc acacagtggg ggaggggggg ggccccccca ttttgatatcc 300  
 ccccttttg ggggttgat gaacctttac caacgggggt tatcttgggg aatcccc 357



<210> 29049  
 <211> 505  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003d04d1

<400> 29049

acgttataaa tgaacacata gctcatgaaa gttacgaagt atacagaaaa ggaaaagcag 60  
 cacagtacaa tataagttat atatagtgat aatgggatac aaggaatact aaatctgtgt 120  
 cactccatga aatatatata tatatatata taacagtcct tgtaatatct tccaatgtgc 180  
 tatcatctct gtctaaccat gattctatca agattttcaa gaccctttaa tcaagttgca 240  
 acgaacaaca atcttctgga aatcatcaag gcttagcttt ccatctccat cactatcgaa 300  
 gtagcgaatc atatcaacta actctttgtc tgtccataaa aaatcatgag ctgtagctgc 360  
 cctttgtata tcccttacac ttatagttcc ttttctgct tcatctagct ggaagaagtg 420  
 tacaatgagc tcatcctcag tcagttgcag ccgactagca tacgattttt tgttcttctt 480  
 tcttccctta tcttcttgaa catga 505

<210> 29050  
 <211> 562  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003d05d1

<400> 29050

gaagcacaaa ttctttcata tacgtcattc catagcataa cgagaaaata aaaagaacag 60  
 aaagaaaaat tacaaaatct gctgttgcta ccaagaaatt gtgactataa tacacacatc 120  
 atgtaacgaa gggatgtcaa ctaaaatatt aatgacatag gctgctggga agtgtaataa 180  
 actgatcaag ataaaagcta ccccatgaaa gtcctaatag cagcgtgaat tgaactagta 240  
 cgagcagaat ttctcttctg tattagtgag tgtgggtccac tccagacaga ctgactattt 300  
 tgggggaaga gaattccaca taaacttgaa agcttggtgt ttttactata taagctctca 360  
 aggagcttag ctttctgctg tttatcttgt gacccttgt gtttcttctg ttgctggact 420  
 gtcgcagatt gaccttcttg atgctatggt ctatattcat catgtagagc tgggtgcatca 480

ccaacatttg atttctcttt caggttccac catgttttaa aggttcattc atctatccct 540  
tctggctggt cattcaatct ct 562

<210> 29051  
<211> 548  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400003d06d1  
  
<400> 29051

gaataaataa acataacatt tgcaaaacca agtttcttaa acaagctaag atatttctca 60  
ataagttttt aaagcataaa acaacataaa acttggatgt gatgcattta gttattcatg 120  
cccttctttg ctttgagggg ttcaagagcc ttgttccgca attcaatctc aagcttcttt 180  
tgctcagatg gtgtaactac actatcactt tgatgataat ccattcgttt agcctcctca 240  
tcacctgaaa tatcatctgt ttactcttc attttcagct tctccgcacg ccgttcttcc 300  
cttctgcgtc gcttctcttc acatcttcga cgcttctcct ccttctgcag cttcttctcc 360  
tcttttctcc tctctttagc ctctttcctg tctcttaact cagaatcatc actataatcc 420  
tcatacagaag atgtatactt tttctcagac cttttatgcc ttttctatc ctttccctcc 480  
cgtctatgct taccactatc ctcaaaaaca gaatcatgtg aagcattgtg attgacacga 540  
tcaccttt 548

<210> 29052  
<211> 508  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400003d11d1  
  
<400> 29052

cagaaacaga tacttttttg aattataaat acagcctttt gcaacaacta attaacgtta 60  
cgtgagatga gaccacacca aggaactgaa atggaatgac atgaaaccaa agcatcacat 120  
atccattagg actaatactt aatctcacta acattaaaac atatatagag accttaaacc 180  
acaccatata tatatatata tgataacaat taacacataa ttttctttca ctctctagtc 240  
tttggccaaa cacttggata gatatcaaga tgcataatca ggcagagaaa ttaaaacctc 300

ttccaattta ttaacactta gcaccttggg aagggagttc cacaagtgct agcaactctc 360  
 cttgcattag gagagtcaac aaacttcttg agattggggg tcttgaggta ttggcagagg 420  
 catggtttct gttctttgat cttggagcag cataagtttg atggaggggt tgagaaggta 480  
 ttgcactaca catgcactta gctgcact 508

<210> 29053  
 <211> 499  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003d12d1  
 <400> 29053

agcccaacac ttattaggat ccagtgatat taatacaaca ataatagttc tacatattac 60  
 actcccttac aatttagaaa atgtgtaagg gggatccaaa accatagcag gagaagcatg 120  
 taaagaacac gcgaatgaaa atccgaccaa ccaaattgca aatatgaatt tgcaggggaa 180  
 gataaggtta ttaaaaatgg aggttctacc ctaggatgct acggcattgg attcttcac 240  
 atcaagaaag gggtagtcag tataaccaag aaccggatca gaagtgtaga atgtctcccg 300  
 gtgatacttg ttgagagggg cattgagagc aaatcttttt ggcaaactcg gattagccaa 360  
 gaaccaacgg ccataagcaa caagatcagc cctgttttca gctacagcgt tgatcccatc 420  
 ttggcgggtca taacctcctg cggctataaa agtgccattg aaggcctttc tcataggcac 480  
 caggctatga gggcattca 499

<210> 29054  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003e04d1  
 <400> 29054

aagtaaagag acacaacata attaaacatt cagcagcata atcataattc tgtgagcttc 60  
 aaaaaagatg ataaagtttt catcactaca tctgttgcta gactttaact atccttccat 120  
 gcaacatgcg gaagtgtcta tgtatgactt ggtaatagta gttttcgtga ttgtttctta 180  
 aatttattga acctcgacaa aaaaaaatat tgggtaataa acttccaagc aacctaaaaa 240

acatgggttta tagagtaacc tacgctgccc ttctgtacag tttgtaagcc acaacaacaa 300  
 ctgctacagc tccaagcaca ccaacagctg tgcgaatatc acgctgctgc agttgaggcc 360  
 aattcgaaca gattttgctc cccttcttat gtgtttcagg tgttttcttca atctccttgg 420  
 tttgctcaag acttgcaactt ttgcaacaag aaacttcatt aacaccctgg caacaaccac 480  
 ccacgttttc tttgct 496

<210> 29055  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003e05d1

<400> 29055

gggaaaaccc ccacaacggt tggaaaaatc cccctggccc ggggccc aaa cagggtccca 60  
 aaccacctcc gggaaaccca accagaaaga aagggaacc ccaaccaagc tgattccccc 120  
 ccccttaaa aaaaaaaaaa aaccatcgaa ccttttaaaa accccaccca tttaaaggcc 180  
 ccctcccccc accagaccaa aaacagggcc cacgggaaaa aaaaaacccc ggaattgggc 240  
 ccggggcctt tggggaaaaa ccggcccgaa cagggaagg ggaaacctct tgggccgggg 300  
 cccctggggg gggggaaaca gcgccaaggc cctgggccgc caccaaggc cccggggaaa 360  
 aaaagccctt ttggggggccc cggggggcct 390

<210> 29056  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003e06d1

<400> 29056

ggaacaaatt attattattg ctgggctttg aagggtgat atttcttgag atcttgagcg 60  
 aggcccttga tggaaccagc agctgagata atagaaacga tcaagcaagc ccagcttagt 120  
 atcttgagcc atgtccacgt gaaggaaaac ctttgcattt ttgactgctt aatggacatt 180  
 tctatgggga agtaaacggt taatggccaa aaggacagt aaccaatcag gcctaggaag 240  
 tcattgaaaa atggaaacat catagctatc aaagcagtga tgatgacata tgttggtctc 300

cacaccaccc tgaaaaagtt cacagggaag gttccacata gtggaaagtt caaagcgtgt 360  
 tctccattta caaaatggct atttggccac ctttccttac cccagttctt tacgaaccca 420  
 aatatgggct ga 432

<210> 29057  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003e08d1  
 <400> 29057

attgaaaaac attatgcacc tagaacttga taaaagtcta gaacaaaact tatcaaatta 60  
 tacatgtacc aaaaaatcac aagctatata aaattataact ttgttgacta gggtccttgt 120  
 attctaacac tatcactggc acacacaatt gcaattagca ggtaactcta gtttaaaagg 180  
 aagtcacaaa agttggaaga actatgagca atcttcaaga cttccaagtt gagttgagac 240  
 attaactctt gaatctagtt tgtgcaaaac atgtctgttt ggacatcagc tacatgttgc 300  
 ttcttcata tacttggagg tgcccacttg ccagcttga acttgccata aaagctggat 360  
 cgcttagaaa caacatagaa gactgggatc ccaggaatga tgaaattagg ctctttgaga 420  
 aca 423

<210> 29058  
 <211> 520  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003e09d1  
 <400> 29058

cgaagaaaat acataattaa attaaatgat taatatcaag ggaagctggt cattactatc 60  
 tccaacaaaa agaaccaagc cagtatcca tgattagggt gtctacaagg atcaacaat 120  
 gtggatcatca gctaattgat acctttgata ttggccaaga ccatagcaac ctgaacatcg 180  
 acaagaatct tgcacccaac attcatccat gaccacacgt gtaatgcatg tcaaagcatt 240  
 tctgttgggt ggagtgcagt gtttatgact ctgagaccgg gagagaagaa tgcatttata 300  
 tctacattaa tatgtacaaa tggattgcgt gaaatttaatt ttacaaagca tgatttgtat 360

tttcttccag aaaaatacac tacacattac agtgagacac attgacctac aaatggaacc 420  
 tagttcttac tgtccactct cattatcttc atcctttttt gtctccaaat caaattcaaa 480  
 ctcagcatca tcatacaagt ttggatccaa ctgaccaaca 520

<210> 29059  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003e10d1  
 <400> 29059

gaaacatgaa aggttcaaca aatactattg ggggcccttt ttgttcaaac attaaacccc 60  
 ccttaaactg aaaacaaatt taaaaaaaaa agcccagtaa cttttgacaa gggttttacc 120  
 catccggggg gtttttactt ttgcatatgg ggctaaattht aatgggttaca agggatggga 180  
 aaatthtttaa aatgaaaatt gcataaactt acaaccaaca gttaaaaaaca aatcctaaaa 240  
 ccctaaattht aagccatttc tgcattgata cctgattcca aaaaaaaaaa gcccttttgc 300  
 acaaattaaa tccctaccat gtatctttgg ggatatatgg gttgtaataa aaagtaacaa 360  
 ccctgccgtt taaaccattg gttttcacac t 391

<210> 29060  
 <211> 505  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003e12d1  
 <400> 29060

gtagtctgca agatgataat ttcccacgga aatctttgaa ccatatgtca agttatacac 60  
 gcacaattht tttgaacttht gacagaagaa atgcagtagc atcacaccta taatttcctt 120  
 ttcacaaaag ggaaaaaagc caaatcact cgtgctaaat gatatagaag caacaactaa 180  
 aacaacagag tgacaaaaga atacaaaaaa taggattaaa ttgaatcacc gcacttgcca 240  
 catgcatcta actgttgaag ggcagaaaga aagcagcgca tgctctgaaa gaccaaatag 300  
 tttcaaacac atgttctgaa agacctgatg aaatgacttg attaccaaaa attgtggcct 360  
 atgcagcagc cactgacggt tcctttgctg tcaagtttga aacagccaaa tgaaatttht 420

ctctagtttt agtactagca acatgtccag cctttgccac cttgctaaaa gcaccgttaa 480  
 accatgcatg ttcagcagtc acata 505

<210> 29061  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003f08d1

<400> 29061

accatcaaaa caaaaaacag tgcttatcaa aaacaaacag caacgaaaat gttaccgccg 60  
 atcaagaacc cagttttgaa ggctacggct acatgaaatc ggcgggacact ttaaaatata 120  
 actggtaaaa caaacaccta agactttgca aagataaact actgtaaagg aacaagtttt 180  
 tttgaaacca cgttgatgat cacatgtgct agcaaaattg ccaaaatgca atcacttttt 240  
 cttggcggca gcctttgtga ccttggctcc ggtgggggtct ttcttctcaa cactcttgat 300  
 gactccaaca gctacggctc gacgcatgtc ccttacagta aaacaaccaa ggggaggata 360  
 ctcagagaaa gtttcaacca ccattgggctt ggttgaacc catttaacca taccaggatc 420  
 accatttttc aaaaattt 438

<210> 29062  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003f09d1

<400> 29062

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 ccataaactg aaaacaaatt taataaaaaa agccaagtaa cttttgacaa gggttttaca 120  
 catccggggg gtttttactt ttgcaaattg ggctaaattt catggttaca agggttgtga 180  
 aattttttaa aaagaaaatt gcataaactt acaaccaaca gttaaaaaca aatcctaaaa 240  
 ccataaatat aagccatttc tgcattgaaa cctgatacca aaaaaaaaaa gccccattgc 300  
 acaaattaaa cccaaccat gtatctttgg ggaaatatgg gttgaaaaaa aaagtaacac 360  
 ccctgccg 368

<210> 29063  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003f11d1

<400> 29063

gacaaaaaaaa cgacatttta tttatcatgc attagacaat aacagcagca aaggccctat 60  
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 tcatatatga aattttatfff cttctttttca caaccagaaa gagaactcag tcccccaaca 180  
 gggaccatgt catgtcatca ttggctctgat atagattttac tcccccatte gaatgatgca 240  
 tctgatggac tccccctttca gcatgtaatc aaaagccttg ttaatctctg agaatggaac 300  
 tgtgtgagtg atgaatttct ccagttccaa ttccccatte atgtacttct ccacaacaga 360  
 aggaagatca gtgcgggggtt tgtagtttcc gtagaaggta cccttttagag ttctctcgtt 420  
 caagaaattc actggatgta gtttgaatgc atcatctttg tttggcactc caacaagtac 480  
 agctacaccc caacca 496

<210> 29064  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003f12d1

<400> 29064

gactcaaaaa tattctgagt ttgattacct gaaaatctac attagttaag aaagtgcac 60  
 aaatatgaaa agaactacag agggaagaag aggtggagaa aatatatgtg caaggcctcg 120  
 ccaaaatgga aaaaacaatc taaaagataa accagaagat aacctattct atgataaact 180  
 aagagatata atatctgcat cagacagaaa tctaagcaat tatctcggac actctttttc 240  
 taacattatc tctatgggtg actgaaattt attaaaaata ataaattttg gtgtatttta 300  
 cttctaaatt aagatagaga atcattaaac cagaagtatg actcaccaaa attgattatt 360  
 tccaatgaat ttcagccaat aatagaatga gtgttagaaa ggaagtgtca gcaagtgtgt 420  
 ccttaattaa cattcttctt acgagaatta ttactttcaa cacaatca 468



<210> 29065  
<211> 423  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400003g08d1

<400> 29065

aacaaagacc gaaagcagat gtatcaactc atctatttta aaacgtatat catacataat 60  
gggaggacct ccctctcata tactgtaacc aatgcggttc tgtaaaggct ttattaccaa 120  
aataacttggc tgcaaccatt taaacaaaat cggagtaaaa cagaaaaatt agcccttttg 180  
taagtgcatt gtacaaatct gaagtagcat taatttaaag attttttcgc cctaattgcc 240  
aagttaactg atcagtagct gccatagccc gagatgctgg accaatggaa ccttcggacc 300  
tgtgaaacta aaagatgact attccgagag agtaaagtgc attaatagtc catgataaat 360  
atgctgaatt tgaattatat gcttacagag caaccaagat ataagctgct gtttgtataa 420  
caa 423

<210> 29066  
<211> 484  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400003g09d1

<400> 29066

ggaacataga ttgagatcca gtgtatatga tgggtaaaac aatcaatatg atctttatatt 60  
tagtccaact tggtggcaca ttattaaatg caggtcaacc gtcttcata tgcacacagc 120  
aatacaaatg gactcagatt ctttacacat tgagctagga atgcaaaaac agtttctcta 180  
atcgaagtgg gggcaaaact tatgaacaaa atagtacatt agcacttata ctcacaaaac 240  
accttaatta agattgggag gggagcggag agaaactctg caaaacttct gatccactg 300  
cttagaacat ttgagccaaa gagtataaag acaggttaca aaagagacaa agaataataa 360  
tgaatgtagc atgaggacta taacttcttt tacacggatg catgttcaag ccttcaagtg 420  
aaatttgcca ggctcagagt atttcggttt cagctgctca atttggttaa tttaaacccc 480  
cgat 484

<210> 29067  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003g12d1

<400> 29067

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agcataaatc ttgagagaac attttttttt gtttcatcat ataaaatata tatgttctga   60
aagaacacat acaagtacac aaaaaaaaaag ggggaaattc ataaaaaaat acagaaaaaa  120
aaaaacagaa ttgagtaaga gggaaggaaa catagagaaa attttagcaa tcagataata  180
agaagccagt agtagtgcaa aagtccttg ccaagagtgt tggaaccctt tttagttaag  240
caggtacctt ctcccccttg agtggcttca ccacttccca tgtgaagtca gggtcattctc  300
tgccaaagtg tccatatgca gcagtcttca agaacctgcc atttccaccc ctcttgagat  360
caaggttgat ggagatcatg ccaggcctga agtcaaaact ctccttcaca atgctgaaga  420
tttccttgtc agggatcttc ccagtgccat aagtgtcaac aaaca                      465

```

<210> 29068  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400003h01a1

<400> 29068

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cggctcgagg caacaaaaga actaaacttg acaagcaagt tgatgattag tagagcctat   60
catgattcat tgtttatggc caggctgtct ccaatgggca tgattttcat tccatgttac  120
aaagccataa gctgaagag tttgccacca ttcaagatat gtcaaattgg gtaaaagtat  180
taacactcac cctagccaaa ttgtccagtc actaacatct tctgtagtga gttcatgtga  240
actttttag gaaaaggaca tgtaatttac ttctgttaca gcctactgat taaatcattt  300
caaattttgg atatacccc ttcaatctat cagaatgagg ggttgaacca tacaanttga  360
aacgtggttc tantagaacc actttttaca ggagtaaaat gataactgcc tgtg          414

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<210> 29069  
 <211> 307

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003h01d1  
 <400> 29069

ggggtatatg caactggatt ctacaatatc attagttcct ttgtctttta aacactccga 60  
 tgaaataaaa ttcaccgttg tgactccttc cacaggcagt tatcatttta ctctgtaaa 120  
 aagtggttct tatagaacca cttttcaa at tgtatggttc aaccctcat tctgatagat 180  
 tgaagggggg atatccaaaa ttgaaatga tttaatcagt aggctgtaac agaagtaa at 240  
 tacatgtcct tttctacaa aagttcacat gaactcacta cagaagatgt tagtgactgg 300  
 acaaatt 307

<210> 29070  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003h04d1  
 <400> 29070

agaaaataac cttttttaat ttataggaac aattcaatac attgacacca ccaatagtat 60  
 gatttaccaa caaaagctaa aacgctagtc attgagaaaa ataaacaagt aactacactt 120  
 ctttgatagc agttcccctt cccatcttaa caccattgcc ataatcatca ttcttcacga 180  
 atctggacca aaaggggtgt gccttccaaa cctgggtcat tttttcaatg ggaatgccct 240  
 tggtttcagg caagaagaag tagatgaaga atgtcatgat caacacgaaa aaggcaaaga 300  
 agatgaacaa gccgaacttt atgtggcaaa gcattgtcaa gaagacttgt gcaatcaaga 360  
 aagtgaaaaa catgttcacc gacacattta tactttgagc agccgaacg 409

<210> 29071  
 <211> 51  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003h05d1  
 <400> 29071

tttgtttttt ttttttttat tttatatttt tttttttcag ggatatttgg a 51

<210> 29072  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003h06d1

<400> 29072

agtatcaaaa gtttaaaaaa tagatagaga ttgcaatcga tgaaatgagc aaaatagttt 60  
 taattttctca ataacaaggg gttgcaaaat aataaaatat aactagcata aaaaattcag 120  
 agagaaacaa aacattccaa cattgctgaa acataaagct ttaaataccta attctcaaac 180  
 tagaagagtg atgttccctt gcccttcttg gcaccaccaa tctcaaaggg cttgcacctc 240  
 ttaatagcgt gttgggagac atgcttgcaa ccctggcatt gcaacctcag aacaatcttc 300  
 ttggggggtt tagccttctt gtggaagacg ggcttaattt ggccaccata accggattgt 360  
 ttgcgaacat aacggcggtt ttcttgggca gcaatgctat ccttaccctt cttggattgg 420

<210> 29073  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003h08d1

<400> 29073

aatagttcca ccggatttct atatcttcat tgccttaaag aacaatattc atatttttgt 60  
 aaaactaaga tacaataatt aatcagctat atggttttta tttgaaataa tgtacgtgtg 120  
 actctttctg gaatgattga tattctgtta ttgcccattg caatgcatat gatcaagatc 180  
 tgcatatatg cccaattaa tttttgttgg gtgtctcaga gatctccata gcagctttga 240  
 acatgacatc ataggctttc tctatgcaa acttgaattt ctgttcatca acgaatccct 300  
 ttagtgttct caagggtgatt cttattactt tcacatagct cataattgat atgtctacat 360  
 tctcaggtcc accagtcatt gtgaaatata gaccacttat tggatgattt gccaaagtca 420  
 tatgttccat tggcccaaaa ggttg 445

<210> 29074  
 <211> 465

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003h09d1  
 <400> 29074

ctccacgga tagattgatg tccagagtac atgccagttt atgaatccgt tcacccagac 60  
 acttttagata cgtacaactc tttactgttc catgcacata gtatatatac atagaaacga 120  
 taacttttta gctataagca caactgtttt tcatatcttc atctttattg caaaccacga 180  
 cgtaagtgcc gtacgactat ttccgaagca tctgctcttc agcatgtcat gtctggagaa 240  
 agttaccttc aaatatgaga tgctgaggaa agatgaatta acagaaacaa acaagagctc 300  
 aatttaaagt tgaactagca taacatgcag ctggagtatt gccatcatgt gaagatttct 360  
 ctccactagc ttgaacattg ttatgggtgc tcacccctcc catggaacta tcctctatat 420  
 gattatgata tgaccaagaa gtccccagc tctatgattt tacta 465

<210> 29075  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400003h10d1  
 <400> 29075

aaagtcaaat tttaaaatta aatgcccaat actatcaact gtataaaaaa atacatgtaa 60  
 tactgatgac taagggaata gcaggggaa aaaatacata aaatgaactc caccaaggtc 120  
 agttacagac agatttggcc agcttaattg tagctttatc aggaatttac ctcagttgct 180  
 caaacctgtc agattctgca agaagacagc taccatcttg cactggctct aacttgaatc 240  
 tataatgttt atttacacgt tcaactgcac cctataagtt gacaatccat ttgcagctaa 300  
 ttgcctgcca ctttaaaaaa atgctatgct gacatccctc cttttctggt ttcagattgg 360  
 cctctattaa caataaaatg ggtaaagagg attgctctac cactaaacct gaccttgtag 420  
 aagacaacat tagcctggct ctatttgact tttctttttg caaagattgg acaagaggat 480

<210> 29076  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400003h12d1

<400> 29076

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gttctaaaat acatgttgac ttattgggtg aaacaacagt acaacgcttc aaatgcatgc 60
acaacccttt acatgtactt aagggtacac gtgtagatag attgaataag ttgtgacatt 120
ttattctgat caactatagc agaaatgtgc taagacgtca tagaaatgca tttatttata 180
aaaatacatt agtgggtggaa atttaattgg tatgacaact agatgggtgat tctgtagtaa 240
tacaaagaaa tggctcacga attggcaaag aatgggacca ggtggatccg tacatagctt 300
ggttgttgat agacatgttt gatgtgtggg atatgatgct tatagagatc atttgggagt 360
actgcctgcc actttgatcc agagaatggc attgttagga atgggat 407
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<210> 29077

<211> 386

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004a01d1

<400> 29077

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caatccaaaa tagctgagat caggtaatta agaaaatata cttttgctag ctaaaagata 60
cattccgtcc agggagaacc aaaaacaact gtttaggcta tgccgtcaag aaattaattg 120
gttctctcac taactcattt aaccattcat tcaaaagggt ccaacaacta tgtaaaaact 180
gaccaccatc agaataatat catgatctag cctccaaagg gtctgattgc aaatgcacta 240
atttgccaat gattaacgct ttttcttgct tccttttgca ctggattttg aaggatgaagc 300
taccaagttt acgaacagga ccattgatga gatcactgag attagagatc catacttagc 360
cagcaacctc ttagcccatt caaact 386
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<210> 29078

<211> 377

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004a04d1

<400> 29078

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gggggggctaa agatgagttt atttcattaa aagcttcaca aaattcattc gacatgctaa 60
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aattacagtc gaacaggagg gaatggaaaa tgcaaaaaac tcataactta cggcatggga 120  
 catttgattc tgaaaggaca taaccccggc taatttgctt ataacaacta atgctttcgc 180  
 acgctttaaa tactcaaagg gtttatcttg ggtgattcca aaattacggg ttccaacaac 240  
 tttggcaagg gagggagcta ttattccatg ttttaggaat tggcttcctt agcacgatga 300  
 gaatttcttg acaggagggg aaccctcact tcatttcaag gtttttcaac caataatcaa 360  
 ggggggtggg acacatg 377

<210> 29079  
 <211> 54  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004a06d1

<400> 29079

tttttttttt tttttttttt tttttttttt tttttatttt tttttttttt tttt 54

<210> 29080  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004a08d1

<400> 29080

aaaatagaat tcccatatgt ttttaacta aaaggga aaa caggaaggtc tatgtaatta 60  
 agattcatga tatagcacca tccactatta ttttaagacgg aagaaaggac cagttactac 120  
 tattcagaaa tagatgatag gagtcatcac ctttgaaaag ctgattgggtg caataacaga 180  
 aataccaaca taagtctagt acaagattat gaaaagaaag cgcataatata aagtttctga 240  
 aggtgagcta gattaagcac tagctgaagc cacatgtttc tgtattttct gctgcagctc 300  
 atccttcttt gctcccaacca ctttgtccag aagcgttccc tctttcacia acacaaaagt 360  
 gggcatagcc tcaatagccc aatcttgaga aacactcttt aattcgtcca catccacctt 420  
 taggaatatg acacttgatg acttctta 448

<210> 29081  
 <211> 442

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004a11d1

<400> 29081

gaaaataaag gggccggggc cggaaaatat cttaatcata attcacaaat tatcatttaa 60  
 attacatgct aatcaattat tggggctcag gctcactggc cactgagttg gactctcttc 120  
 ggccgagtc actcagccga atcatcgccc aaaacaaaac caaaacaatc gttttcaact 180  
 aaccatcact tgccacctgc ttaacaacaa tatttttaaat aaacacaaaa cttaaattca 240  
 gttttataag catgttttagt accgttcatt gattaaaatt gaactaaaat tacttacaaa 300  
 actatgtttt gtctcgctt tatataacag acatatataa tgaacactac ctgggttcac 360  
 tcatttggct gtatttctat taaactaaat ttgatataat ataataattt ttattacagt 420  
 aaacccatga aagcccaaac ct 442

<210> 29082  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004a12d1

<400> 29082

aataacaaaa taacatacat ctgaattagc tttttgtgtc taccgaaatc gttcctctgg 60  
 ttaaaatctt atagactaat ctcttgtaa ttagtttttc tacgtacact tatggtatct 120  
 aactgaacga cgggtcccaga aattagcaca aaccttctgt ctttaacaaa acatactcag 180  
 gaaaactaaa ccaaaaaaca accttgtttg agcaaacaca ttgaacatat ttcaatttat 240  
 aaacattatt ttggctttga tcagtattat tgatctcccc tatcaaaaaa tgagggacta 300  
 agctcctatc aagttctcca ttgttatgat tgggacacaa aatcaggggc tgtgtcaaat 360  
 caccttcata taatgcatta gccgcaacct gaaatattaa atgtgcagct ctaaaactaa 420  
 aactgaagct gccccaccca cactact 447

<210> 29083  
 <211> 476  
 <212> DNA  
 <213> Glycine max



<223> Clone ID: jC-gmst02400004b02d1

<400> 29083

cctaaagatt tgtagatggt gaaggccatt cttaaaactc ccaaattgac aatattgaga 60  
 ataatattac aaaacccaac acctcatttt tttttaaca tccgtaagac ccccaaagtt 120  
 tataggggag taatctaata caatttgctt tatacccat acaatgttca gtgaaagggtg 180  
 aaggagcagg aagccaaaga tgtaaacgga attttaaatc gtactataat agatagcaac 240  
 tttagcaac aactacgatt atgtaaacag cacagaaaat atggttgatc cataattata 300  
 caggaccata aatggttatt taagaacaa atcacccaaa cttgagatat ttggcttaga 360  
 tgagaggaag ctaacgagaa aaatagcttt acttcagct gaagccttg cttaccacct 420  
 cacaagaatt tttctatgct tgaaggcaat gttgctttgg gcacagctcc aataac 476

<210> 29084

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004b03d1

<400> 29084

acaagtcac aaccgtttat gtactttagt tataataaaa aaataacagt tatttacatt 60  
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 cagagaaatg ctagttgcaa tgcgagaatg tctttatatt aggtcagact gttagcttaat 180  
 ggacatgtag agaagagcta atagagcacc ttggggaagt ggtgcatacc ttgcaaggta 240  
 tgagccaacc cacaaggcca ccacaactag tgcgacaaca ctactactgg ttttcccgca 300  
 aacccaactt gcaaatgaca agcatagtgt tagcaatatg ccaccctcc cacccaaaat 360  
 ccatgctatt acatagccca ttttatagcc ggtgtctaata ttcttatcaa acaatgccat 420  
 cagactgctg aatgtgagt agaaacggga tccaagcgtc tgaagcaaaa ataatgacat 480  
 gaat 484

<210> 29085

<211> 405

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004b04d1

<400> 29085

caaaacaaaa tggcataaca taaactttcc aggtaacata atcataacat tggagggggg 60  
 ttataactcg aaaacagcca acattgcctt ttttttaggt ttccccaca aaacccaat 120  
 tttttggagc atgtggcctt ttttttgggg cggaaaatta ttatcataaa gcttttaaca 180  
 aaagggggag tccttgtcca ttataaagta ataggggggg cccaaaaaca tggatctctc 240  
 actaagttcc ccattggccc ctgctgaaag cattgcaaaa gctgcctttg aagccttttt 300  
 ccatggaaca aacggtttct tcaacctttt tagttcacct tttattattg aattggctgc 360  
 tggagatgct ccaggtggt gggccccct cgccgccttt ggggg 405

<210> 29086

<211> 468

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004b05d1

<400> 29086

gaagcttaac aatcttcaca ataaaaaatg cattagttga taaaaccat aattccctcg 60  
 tacaacctat aatagattca taaatcatta agccaacgaa cgttcacaat aaaactaatt 120  
 ttaaacccaa aataaattct ttaatgaaac caaatattta acatgattct agatgatgga 180  
 acatcaaaag aaacagagac gagggtgagt gtgagggaga tctgtctttg aacacaaata 240  
 tgccaaaagg agagaagggt gatacactat aaatacctac cctcctactg tgctctgttt 300  
 ggggctgatg atacttggtg cattagtgtg attagaaata taggcatttg ggaagctggg 360  
 gtttcaatgg aggtgatagc aaggtaaaga ccaaatagca aaaaattgta atcagattga 420  
 atcgaattaa cctaaccctg accactgcaa caaatatggt cctaatat 468

<210> 29087

<211> 464

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004b06d1

<400> 29087

aagcaacaac attcagaagt ctctcttatt tagtccacga gattggatat gggatgagaa 60  
 gatgattttt caaccatcaa caaagaaagt ttacattatc aaataaactg agctactaag 120  
 gagcctgaaa gatcagctta taccaaattct gaattttaac acaagggtcaa acagccatga 180  
 tacagactta ggaagggcat tctcacgcat acaaattctat gcccacaaac acagctgggt 240  
 gattgggttcg atattttcta tctatacttc caatgagctc catgtcctct ttagacaact 300  
 caaaatcgaa aacctgaaag ttctctttca acctctccag ttttgacgat ttaggaatga 360  
 ccacagtgtt cctttgaatt cccacagcga ggctgatctg ggcggcagtc tttttgtatt 420  
 tttcagccag acctttgaga acttgggtcat ccaaactga aact 464

<210> 29088  
 <211> 219  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004b07d1  
 <400> 29088

agaaaaatat aaatcccccc cccaaatgga aacaccacag tagaaacatt taggggtctt 60  
 taaatgttaa cccaaaccaa acttttttta aaggggcatt tcacaccct taaacataac 120  
 aattgttctt aaaaaggggg ggaaaatccc aaatcgaccc tcaacaaaaa ttacgtcctt 180  
 ggttaaaacc cccagggga ccccaacccc cagggccag 219

<210> 29089  
 <211> 477  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004b08d1  
 <400> 29089

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 aataccccac ttctatagta tttgggtattt tacaaggcag caaattttat gtaaataatt 120  
 aattttacat ttaatttaac gtaagacaca ccacacagaa gagtgggata aaggactgag 180  
 agcaaacctt gtcttggttg ttcttcaact gcaagggatg aggatcatgg ggtctaattc 240  
 tgatgttctc tatacaactt ccattattta ttcgatgtaa tctatgcttc tgcttcctat 300

acttctcacc tttatctttg acctttttgt tcttcctctc atgatctcta gactggttct 360  
ctaatttggg cactgcattt ggtagccctt tctggccttt gtataacaca tcagcacaac 420  
acgtcttttt aaaatcaaac gtgaattgga actattcagt tttttttaaa aatatga 477

<210> 29090  
<211> 488  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400004b09d1  
  
<400> 29090

aactgattca accttttttc cttttattag aagtgtatcc cgatttgact ctttgtgtag 60  
caagcaaaca aaccctttgt gtccattctc ttgttacaaa tgctaatacta aagaatcaca 120  
aacaaaaagg gagacaaaaa agaagaagaa tgcaacatcc attatggcca ccattgttct 180  
taagttctag ttcttgcagc tcttcatgta taagtgaaca tgtgcgtgca attgtaggct 240  
tgcttctca ttttcattga actgctgaga ctgacagaac cccttcccat tccagaataa 300  
agcatatagt gcatgaagat acaacttaag aaaggaatga ctgagccgag gcagcttcag 360  
caacggaatc aactatctct aagtctcaga catccatcca tgcattgtgca agaaaactcc 420  
cttcatgtgg ttggccagga acacgtgaag aaaaatgctt ttgggattag aactaatatt 480  
agcttaaa 488

<210> 29091  
<211> 350  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400004b10d1  
  
<400> 29091

cttgttggtg tttctttttt tttttttatt ttatattatt ctttaatggt catgcaaaca 60  
aaataatatt tggaaagggg gtctgcgccc ggggggggcc caaggaaaaa aaccccccca 120  
aaaaaaaaa aaaagggggc cccacaaaaa aagggggggg aaaaaccggg gggggccggg 180  
gggaaaaaaa aaaccctggg cccgggcgga attccaaaaa aaaactocca aaaaaaaaaa 240  
accccaaaaa aagggggggg gccccccccc acaaaaaaag gggcgggccc cggggcttaa 300

caaaaaaacc ccccccccc cctggggagc ccacccttag ggggggggga

350

<210> 29092  
<211> 376  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400004b11d1

<400> 29092

ggataaaaaa agatatatcg gagtattcaa tggatgactt ctttacatta actgggtccaa 60  
atatttttac agccttaaaa ttctaatagat agcttcaatt ttttccaaaa atgattgaat 120  
aagattaagt taagggtcaa catctaactt tatgcgcgatg gcccgaaatcc atatttcatt 180  
cgacaactta ggaaactcaa gatattttcc taatcaatca acattgggttc cccatttgta 240  
gtctgaattg gggccctggg gctctgtagg cttaagggtt tcttcatttc ctgagacctg 300  
acaaactcct caattcttgc ttttagctca tcggcgggaa tcaacatata cccggtaaga 360  
tgagaacggg tgaatg 376

<210> 29093  
<211> 521  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400004c05d1

<400> 29093

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aacaatgttc accctcaaaa agaaaatagg agagaagaaa ataaacatag tttaacttac 180  
attaatacaa aacgatagat tgcacccgca aaaatatctg ccacaatgcg accaggagcc 240  
gaatgctcgc aaggggggaa cttggacttg tcatcaaagt gaattaactg ccaactaaac 300  
actagccaga aggaagattt tatccaaggc caattactgg tttatgcacc cccttcatct 360  
tcagagaagc gtttcttctg gccgtaatat gggcaccagg ggttcttgca aatctgagtt 420  
tacgggaaac agattacact ggcgatattg tgccatcaat tgggtccaca gaaccaaagc 480  
taccattgcc tctacatag gtacagctct tgggacaaca c 521

<210> 29094  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400004c06d1

<400> 29094

agaaaaagca aatgcttttta ttcaagagaa acaactgtgc attacatttg atactgctct 60  
 caggactatc aagaacaaag agcatcatca tacagttgac gaaggtgact gcaaaggtga 120  
 tgtcaagaca gccaatTTTT cagcaaaaaa accagaaata aaactgataa cttcccattg 180  
 aacacaagaa acaaatgctt ttctactcatg agaaacaacg agcacttggt ttccaacatt 240  
 gcgaccgcta aaaaggccaa ccaatgctga aggtccattc tcaagcccct cagctatgtc 300  
 ttccacatac acaaccttcc cctctctgat atttggcagg agaaactcca agaacttggg 360  
 atataggtga acgaaatcca tgaagttaaa gccttgcaaa cgaatccgct tatatatgat 420  
 ctgtgccaaa tntgttacac cttcatgttg agtaagatta tactgtgaga tcattccaca 480  
 gacgggtatg cg 492

<210> 29095  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004c08d1

<400> 29095

atgacaacca tggggaaaaa atttttatTT gagaggataa atttgtcacg ctaaaggaat 60  
 gggatccacc tctctagaga ggaaaatatg atacacccat gttggtaccg gttaaccatt 120  
 ggtcaccttc ctcttcaatt tcatggagtt gaaagctata tgcttaaaat gaatcttacc 180  
 ggagataaga atgtggaaat aatgtttggt tcgttaacca ggagtagttc gttagtcac 240  
 cctgccttaa tgagatttga ttcttactgc tggagattag ccctgattgt tatacgtcca 300  
 gacgaggctt tcatgcaata ctttgagttc aagatatcac cagagagcaa attt 354

<210> 29096

<211> 470  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004c10d1

<400> 29096

gataataatt taacttttaa gagaacttca tgatcatcaa ccatccaagg atttaagacg 60  
 aaaggaacaa gtacaacctt cgaaagttaa ttaggaagaa aacacaagga aggaaaacca 120  
 tacacagaag aagattccag agaaattcaa taatacacia tttttttttt tttattttca 180  
 tttccccccc tctagtagtc agtggtggga agctgctcgt ggggtgtggct gataaagaca 240  
 acctcgtaaa caaggccagc gattccacca ccgatgagag gcccggccca gtagatccag 300  
 tggttggtcc aggtccagct cacgacagca ggcccaaatag tcacagcggg gttcatggcc 360  
 gctccagaga aggccccacc caacaaaatg ttagcgccga caatgaaacc aatggcgatg 420  
 ggagcaataa ttcccaaatt acccttcttg gggatcaatgg cagttgcgta 470

<210> 29097  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004c11d1

<400> 29097

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 gttaaacttg tgggatcatg ggatgtttta catatttcat gctaataact tgtatcgagt 120  
 ctgtcacatc ctgccacacc gtagtgattt gcatactaac cagagcaaac attcatgtaa 180  
 aaataaaaca ccatatacac aggatttcac cagatacagg tagtttatac ttacatatta 240  
 cacacagaca caggctgcta tcaagaatag ctagctattc gttacaagag tacatgtata 300  
 acagttactg cttaaaataa agctcaagaa gcttcttcaa agtgtcaaata acacttgatg 360  
 aaggattaag ctcaataggg gcgttgagtc ctacatcagg aaattgggtt gtaagtgcct 420  
 gctgcattcc agacatagac atcatagctg cccactgact attggacatt ac 472

<210> 29098  
 <211> 498  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004c12d1

<400> 29098

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 tgcaacttat tagctaagggt tattaaga aacatgcacc ttcacgtgga aacaccaata 120  
 acaagatgaa gcctatcatt ttccgggttag gttaggtggc atacaaacag attaagaaag 180  
 aataaaatta tagcataaca atacaataat aagaaaaaga tgacaatcga ccctgcgtcg 240  
 tggaacatct tcaattaaac gaccttcggt cattgtttat tgtcatctcc gaagtttcat 300  
 tgttctcctt aacctcagtt ttaaattcgt ttttggttgt cactttgcat ttgtggtgct 360  
 tgaagcatgt taatagggtg gtcattaacg aggctgcta cttgcatgaa cgaataaact 420  
 actgttggtc ccacacattg gaaacctcta cgcacatgt ccttgctaata cacttcagct 480  
 ttccgagtc tccagggt 498

<210> 29099

<211> 393

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004d01d1

<400> 29099

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 attgacaata ggtacatgat atcacatgag aatatatagc atataaagga agcacggggg 120  
 atgatgatga tgaagataga gttgtgtgct cacaatcat agggctgctt gccagtgaac 180  
 ttgacctcaa taggactaac attcttacca atagacctga agttttgacc cacccttggt 240  
 cgtccggcgt tgaccttctc agggtaaaca ccaccttag ggtgcaaata ctgaacctcc 300  
 ccattaggga agacctgta gaactgggtac ttgatcttgt acttggaact gagcctagtc 360  
 ccaagagcca agcactgctc cttcctggcc aac 393

<210> 29100

<211> 479

<212> DNA

<213> Glycine max



002250"ETT550

<223> Clone ID: jC-gmst02400004d03d1

<400> 29100

gtgcagatta cttatttctt cttttctgct taaaatatca tacaaggcag caagtgtgta 60  
tcagcattga gcaaccacaa taaatattcc taaaaaacct ggctccatat ctctaggtga 120  
aaagtgtgca gataaagtgt atatgtaatg caattttctgc aaactaccaa actaactgaa 180  
taattcccat tccattccac actgaatagt atggggaact gttaaagtgt taccttcaac 240  
aactacatga atagttttca tagagcacat gtgctagaga gagactactt atcaggatca 300  
aagacatcaa acaaagcctc aactttacag ggtaattagt gttactttct tgtaaaacat 360  
acaagaaaag ccataaatt taggcaatta aaacaggaca aaatgcataa atagaatgct 420  
catgtttata ataatacact tcatatcagg gtcataaat tgccattgct aattaatat 479

<210> 29101

<211> 502

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400004d04d1

<400> 29101

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gaggtggata ttgcaatggt tataccccct tcatgaacta gaagttcaga ggtggatatt 120  
acaacgttta ttggattaag cagactagaa atcacacaaa cattaaggga aacgtgcttt 180  
tggccataga tcagaatcag acaatttggt ttttaaggaa ctcaatgatg agctggttca 240  
ccttctctgg aatttgttca tgcacaaaat ggctcccttc tggaatatat atgatttcca 300  
agtcgggcac aaaatttttc accatccac ttcgaatata atcctccatg cctggaaagt 360  
tgataacata atctttctca cccatgatca gaagtgtgga aactgtaacc ttcacgtcac 420  
ttaagccagt ttccacattg agactcctgt aaggagacct gcatgcatat ctgaatccag 480  
atttttcata tanagatgca ta 502

<210> 29102

<211> 519

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004d06d1

<400> 29102

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 aaatgtaaag aggcaatgaa tcagtcaccc ataacatacg acaataggta acaacaacaa 120  
 aaaattacta aaatacaacg tataaccattc ttgtaaagta gctagacagt aaatacaata 180  
 aatgcactaa aatcaaggaa atgtgctgca gaatccagac tccagatata gtcacaccta 240  
 aatgtttgct gtaaaattct taactagaag ctcatattgta gggtcccata ccgacaccag 300  
 tctcgccgcc agcataaggt tggaagcttt cccttgccct tgagtagttg atatagtaga 360  
 attcagagat tatggcagtg aagaaaacaa aagcagcacc ggcagcaaag actcccttcc 420  
 taactgtttc gcaagacgga ggattctccc cgaagatggc cctgtacttg gtgtgatagg 480  
 cattttccac tgatccagcc aacaagcaca cctcagcta 519

<210> 29103

<211> 431

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004d07d1

<400> 29103

gaagtaaata taattttattc aaaccaagag gaacaggcaa atgaccatag taatttgaac 60  
 cctcctggaa ccatcatcct caatacatac ataacataac ccatagaatt ctcgatcct 120  
 ccgcttggca tgcattgatg ctgacatgga gccaaatcag cagggcttat atatatatat 180  
 atatatatat atatatatat atatatatat cggaagcca tacccaaaga cttaccatta 240  
 caataataac attaataata aataaaataa aaatgcaaga aacttcatct acttcaataa 300  
 taccgtatcc atgggcttaa gcttcagtct tctcaacaga aacttggtgt gttttgggtt 360  
 cctcaacggt ttcagctggc ttgatctcct cttgcttctg ttcctccact ggcgctgatt 420  
 cggtttcttt a 431

<210> 29104

<211> 465

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004d08d1

<400> 29104

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aagacactga caatgtacca ctattaattg cgcagcttg ctgctctagc tgcttcacct 120  
tttcttgcaa ctctctgttt tcagaacact tatcaattag ctgttctga aggacacggt 180  
tgtctgcaga ttttagctcc aactcaaagg ctttttcatt acattgagtc attaaactttg 240  
taactgtctg ctgcatttca actagcgatg aattagccac aggagattct tcagtctcaa 300  
ttaacctttg ttctaacacc ctcatagct tcttttttc ttggatctca cgttccaagt 360  
tctcaatctg aattttggag ctttcagggt catttacaga ttgctccatc aagcgcttca 420  
gagtgtggt actgaaagca atatctccgg ctagcatttt gactt 465

<210> 29105

<211> 447

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004d09d1

<400> 29105

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gatgtataat cttagtaaca agaatatctg attctttttt tattttattt gatgtgtgat 120  
agttgttgat gtgggtgtgc ggtagaattg gcatggagcc ggttacaatt cttgtccttc 180  
gtggccaatg tggattgct acttgtcgtc attctctttt tcttagttaa agctgccagc 240  
cttctcaatt ggtatttcac ttctcaaaa tcatgttgca ttgttagat tactgtctct 300  
gctacattca tatgcttgat ttccgatatt aaactgttca tgattgaatg aaaaataaat 360  
tcattttggg gaaaagtact ttgattaaca cattgcttac aatctgaata catgttccat 420  
ttcctacaat taatctctct aactatc 447

<210> 29106

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004d10d1

<400> 29106  
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 aacttaaggg gggaaaaaac tcaactactcg gggatccata atgtcaaaac agaaaacact 120  
 acaatatggt tataagatat ggtaaccgaa tagaaatcca gcatttccat ccaattaaca 180  
 aaattatgct ttgaggcgtc caaagaactt ctgcttctcc tgtgtgggtct ggaagcgacc 240  
 atgcccacaaac tttgaagagg tgctgataaa cttgagcttg atctcctcca gagcaacacg 300  
 agaagtctgc ttaaggaggg attggcgcaa tgtaataacc cttttcttgg gaccaacgca 360  
 gcatcccttg accatgatat aatcatcctt aacaacacca tagtgaggga aaccacctat 420  
 tggggtaatg tctttctcgg tcctatcaaa ctcaagtaaga gcagagtga attcatctcc 480  
 agc 483

<210> 29107  
 <211> 530  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004d11d1

<400> 29107  
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 atatgaaaac atcaccagga gatgtatggt actataagac atatttggtg gccaatagaa 120  
 ttacgacatg accatgtgct tgttcccttc cctaatactg ttggtcggca aacgattcat 180  
 aaaaatatta gactaaagct attaaaaatg actaggacat gtgtttggca gcacttccac 240  
 tttctaattc ctcatggatt acgggcggtta accctctata gggactataa aactgttctt 300  
 gacaatgcta aaacaaagcc cattaaacat actagtcttt gctcttgctc catacagggg 360  
 acatttgtct ttgtccgaca ttagaactca caactgcact tccattttcc acattcatca 420  
 gaggatcaga ttcattcttct cttgcctggg atgattgaga tgcagcttcc acagtttttt 480  
 gctgattctc gagagtgcaa tagtaagaat atagaatcat cccaatcatg 530

<210> 29108  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004e01d1

<400> 29108

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aaaatgtgcc gaaaaatata taaaccacac gaatcaataa ttcaaagcag aaaagggagg 60
ggggttcaaa cactcgagaa ccatggacga aaaatggagg gcaaaaatgt ctgcaatcag 120
aatcaacaaa gagccgagta catcagcaag tatataataa tccaaaaact ccatccccta 180
cacagaagag acaccaaaaa aaagcttaat gtcctaaca gggtacaac accggttccc 240
gaaaccgatt tattcatact tctcattttt gcccagacaa gaagacacta aatcgcagct 300
agacaccagc acataatgtc tagacaagct actttttttt cagtacaacc ttaaaaagac 360
ttcttggtcaa cgaatacaag caggtcaatg a 391

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<210> 29109

<211> 419

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004e04d1

<400> 29109

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ccaaagaggg gggaccccc cccctttttt tttttggggg ggggggggag aaaaccccc 120
caaaaagaag aaatagtggg gggcaaaaaa aacccccaaa aaacccccgg ggggggggta 180
aggaaaaaaa aaaaaaagc cccccccct ttgggccttt ccacaaaaa aaaaacgggg 240
gggaataaaa aaaaaaagg gggccccccc ttgtttttt tttctgttcc cccggggggg 300
gggggggaaa aaaaaaaac ctctttttta tataattaa aaaaccctgt ttggcggggg 360
ggcccctttg gggggagccc cccccccccc ccacaagaac acaggggggg ggggggggg 419

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<210> 29110

<211> 442

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004e05d1

<400> 29110

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agaaaaggaa aggggtggaag gagatgcatt tatttaaata gaagaaaaga aggctaaatc 60

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atagaggtta tacggaacct tgcaatccta aagtaactga tatcatggga tttagtttct 120  
 ccatggacag caaggteccgt caatatcctg ccaataaccg gagccatctt gaagccgtga 180  
 ccagaaaagc cggctccaag aaccacatcc ttcccaaagt cccacccaa gaaatcaatg 240  
 aggaaatcct catctggcgt catggagtag atgcaagact gtttgatgac gggctcagt 300  
 gattcaacca tccccttgaa cgtaaactcc acccattctt tgagtttttc catcatcacc 360  
 gctgctcccc acggcctctt atccgggtcg cacggctccc ccccgatcac accaacctta 420  
 atcagccccg gaaactccaa cg 442

<210> 29111  
 <211> 235  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004e09d1  
 <400> 29111

gaagcttaaa aaaatctttc acaatacaaa aaatggcatt atggggggag ggaacaattt 60  
 attttccttc gagattatcc tagatacaaa tgaggcttaa tctgatacag gccaccttaa 120  
 aggtgacctg caaaagggat gtcaagaccc cataaaattt attctaaaaa ccagaaatta 180  
 aactgataaa ctttgctatg ggacacatga aacaaaagct ttttacttat gagaa 235

<210> 29112  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004e10d1  
 <400> 29112

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 tcttaatgtc aagttcagcc aaatccaagt cagttaactg catatatgct tgggcccttc 120  
 tatagagggc tttaacattt gtactctcga ggtctaacac cttggtacac aatttttctg 180  
 cttccttgta gtcttttaac ttcaacttgc aagcagcatt gttaagattg caggcaacct 240  
 tcaaggtctt ggctgcttt ttctcctcct caccgaatga ggaatcatat tctatgtact 300  
 ttacagcctt ttcatatctt ttggaagctc ttgcatgctt accagcttta aacaacacat 360

ttccttcttc tttcttctta ccagcagctt caagtttctc ttcagtgttc aaatcccagg 420  
actc 424

<210> 29113  
<211> 353  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400004e12d1

<400> 29113

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atttcaaccc caactaaacc aaaacaacca acagtaaagc atacaaaaat tgggggggttc 120  
aaaatggttg acaaaagaaa acagcccctt cacttgcaaa tacttttttg gggcctgcaa 180  
atttagctgt attgaattca taaaggggca acaggggtat ttgattgggc tccccattca 240  
ggccaagatc catcataaac tggaacatca gactttttta gacgatgaaa accccatgca 300  
agaatgcaag cagttacccc tgttccacat gaagtcacag ctgggctttc caa 353

<210> 29114  
<211> 446  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400004f02d1

<400> 29114

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accatgtttc tgtttgtact taagtgtagt tctttttcct tcccccgata tttccatgtg 120  
ttcaattata tctatatgac agttactaaa aatacaaaat gtcaaacttt actagcccaa 180  
atatcataca atggacatct tacgatacaa caacgtacaa ttttgctttg cctttcagaa 240  
ctgttttctg ggctagcaag ttaagcttgt gcttgattca agggttgcct tagcaagcca 300  
caataagcca ggatcattcc gtttcaacac caagtaagca ttttcctttc caagattgtc 360  
aaacataaca tcttcgctga agccaaccaa aaatagaatt tccaaggcag ctttattatt 420  
tacaatattc ctctcaatga ctggat 446

<210> 29115  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004f03d1

<400> 29115

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 aaagaaagaa acatgaatta caaaggccat gacttgaatc agatcaaaat tcaactggaaa 180  
 gaggtgcatg gtcagagcga atgaagacat tgccgtagat aaggccagcc aaaccaccac 240  
 caataagagg tccaaccag tagatccagt tgtcatggaa gtcaccacta acaactgcag 300  
 gcccaaagga gcgtgccggg ttcacgcagc cgccagagaa tggccctgct gccaaagatgt 360  
 tggcaccaac aatgaaacca atggcaattg gtgcaatggt tccaatgat cccttcttag 420  
 ggtctggtgc tgtggcatac actggggaca ccaaaccaaa tgtgatgatg atct 474

<210> 29116  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004f04d1

<400> 29116

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 atagacaatt tcatcaggca aaccatacat agcaggtacc gcatatgaat tcgcccacta 120  
 ctgaagcagc cacctccatg aatttccttt ataaattgtc atcaagtatg ggggacagca 180  
 acagcccttg aacaaactcg catctttttt ccttctcttc cttatcctta actgacaagg 240  
 ttgatgtctc cacatttctt gttgacacag tctcatctaa gcatttttta gatgatcttg 300  
 tctcagtgtg taagtgaggc tgagaactgg catgttcatt agctaaaggc aatataaatg 360  
 atgacaacag tggatctgca ttagatgagg acactataca tgaagatccg ccaaaaaggg 420  
 attgcaaatt tccttctcgt agttccttcc tcaaaaagat a 461

<210> 29117  
 <211> 425



<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004f10d1

<400> 29117

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 aatactatcc ttgtaatat acattacaca caatctgcac ttagtggaca ctggatggat 180  
 gctatatcat tacataacac acgaaggctg cgaataagta gctaataccc ttttcacgaa 240  
 gaagagtgtt ggccctcgca cgcggggcta tcgtcgaaat tcttcgatgg atacttcgcc 300  
 gggaccatac cgacctcgaa gacgatatca tcgccggagg agcggattcc ggtgatggac 360  
 caccacttga agaacgcgcg aaccctaata ccttcgagtt cagcgatttt ccccttcacg 420  
 atctt 425

<210> 29118  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004f11d1

<400> 29118

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 agaacatatt aaaggaatgg agattatggg gtgtgctgga tccacattag tagatgacac 120  
 ttcgacttat gttggatgat ttgagcacca acttttggat taggagttag cacagtgact 180  
 ggagcatgtg cataggtagg agaaagctca aatgagaagc gttgtaagag taatgacaaa 240  
 accaacttcg cttctaataa agcaaaatth tggcctaagc acactctagg accccatcca 300  
 aatgggaaaa acacaacttg gccttttgtt gcctttgcta ctccttcagc aaatctttct 360  
 gggttgaact ctgtagcatc atcaccccaa atatcacgat 400

<210> 29119  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400004f12d1

<400> 29119

aacccaatca atataatddd attdtcttdc tttccaaaga aaaacaaaac tgataccatc 60  
 aaacccaaaa aatagacttc acaactatac atatacatat caccagaaag aatgtgtcag 120  
 taactcccag ctactatatac tatgcagaaa tttatatatt ttctcgagaa ttctcttcat 180  
 ttaccaacaa tattaatctt caactataaa taattatcgg ctcaaataat gtcagtgcac 240  
 gaacctttga ggcaacttca ctcttttaggc aactgtacca agcatatcgt tttctgggtg 300  
 atccgcatta aggggaaaaa tatcaacagg ggcaggtgta tagtcaacac cagtttgctt 360  
 aaatctacca ttacaggagc ctgcatggtg atcaagatag attgcaacta 410

<210> 29120

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400004g01a1

<400> 29120

ggaattcggc tagagctcga gccgattcgg ctcgagcttt tccagtttca aagaaagacg 60  
 agtgctgacg cttgaagaca gtgaaggaaa aagctaacaa attcgtaaat ttctagaaac 120  
 ctctcatcaa aagtgtcttt gatccgtgag aacttaaact cagactccta aaatagtttg 180  
 atcactttcg cattgacctg taaccttttc tctccggata ccaaaaccgt aagttgctga 240  
 acatggaccc gcaatcggcg gttcggggcg aactggagcc ttcggttccg acgttctccc 300  
 cacggttcgc gctcacatcc agttcgcagc ggaaaaatcgc gatcgctgac gatctgagcg 360  
 actagagtgc ctacgcngta cgctggggcg tgcagaacta cttgcgacc 409

<210> 29121

<211> 442

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400004g12d1

<400> 29121

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tcgtaaacaa ggccagcgat tccaccaccg atgagaggcc cggcccagta gatccagtgg 120  
 ttggtccagg tccagctcac gacagcaggc ccaaagtca cagcgggggtt catggccgct 180  
 ccagagaagg cccaccccaa caaatgtta gcgccgacaa tgaaaccaat ggcgatggga 240  
 gcaataattc ccaaattacc cttcttgggg tcaatggcag ttgcgtagac cgtgtacacc 300  
 agaccgaagg tcatcacgat ctccaacacc aaggcggtgc caactccaac tccagcggag 360  
 agtccgaatg ctggaacagt ggaggcgggtg accaaggcca cgaggaggga ggcgacgatg 420  
 gagccgagga gctgggcgat ga 442

<210> 29122  
 <211> 304  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004h01d1  
 <400> 29122

aagggtcaaa tctcaattg gatactacc ttttttccca aaattttttc aaattttccc 60  
 agagaaagaa aacttttaaaa gccaaaatat ttggcaaagt aattttaatct atccccaat 120  
 taacaatggg ggccactcc aaactcgttt cacttttatt tgaaggccaa agtaattgaa 180  
 gtattttggc tacttggggc ctcttttatt aaaaattttt tgcaggattc aaaaatggaa 240  
 cggccaaaaa ttttagccaa gcaagggaag gctcaatttg gggcaaaaaa tggggagcca 300  
 gggg 304

<210> 29123  
 <211> 458  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004h02d1  
 <400> 29123

cgagaaaata atgtaaagct tccatattga aataatgtat ctgtcagtta caacagaact 60  
 tcagaagggg aaccaaactt tgttcatcca gcaccctact gccatgactg cgtaggggaa 120  
 caaccatac cctgaaacaa acttccttat gccactaga acttctagtt taagcaaatg 180  
 caccagcaca tgcagtggct ggagcagctt ccagctgttt ctttgagta ctgtattttt 240

ttgttataaa cctaaagaag tccctccata gcaactcaaa catcaaccaa ttgttccag 300  
 ttctggacga gccattacca ccatcattcc ggttggacga agcagaaatg actctgccgg 360  
 cagtcttctt cagtcttcca tacattgtgc gaggggaaag gcattccatt gcccaaccaca 420  
 gagaaatfff gcaggagaag gttgcaccat atatactc 458

<210> 29124  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004h03d1  
 <400> 29124

aagcacaaaa gacgtggata acttgatatt attttattac atacatgcat agatagcctg 60  
 ctctcaaata agtcggcagg aacaaagata gagagattca acgatcttca aatttcacat 120  
 ttgccagaaa tatataacag aaaagagggg tatgggatat gagttaagtt ttgatcacat 180  
 tcaactacac tatcccaaac cgttactctt aagactttga acttcacttg tactctagga 240  
 tcatgttggt ctcaggagct aatccaacac aagccctcag gatgttttcc agcatagctc 300  
 gctgctttga caacgcattc accactgggtg taccgggtgg aaccagaggg gccttgggtca 360  
 ggtaactaag gatggtcgca actgggtgga atgagtggaa ttttccctca ttttcagctt 420  
 taaactcgat tcgagtgtg agctcagcaa gaagga 456

<210> 29125  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004h07d1  
 <400> 29125

accaaaccat catttcctat ttgtttttta ttagttttaca acgggtatac ctgtcatcaa 60  
 actatcacca atacactgaa atcataatca taatgtaact gataaacacca ccagcattga 120  
 caaaataaaa tgggttaaaaa aaagaataaa acaaaataaa tcacacaaat cttgtaaaag 180  
 gctttcttcc caccaccctt gcgggcaaag acaccgttga atccacactc acgtttccta 240  
 tagattcaag tgactgaaat ttatctggga ctctttgatc cttgtttgag aaccctttag 300

accacttgaa agaccaatt ccttgtgaca aagggaatga gagtctcctc tttgaatcag 360  
 tactagttgg agttccacca agcctgtctc ttggattact actagcacgt actttggccc 420  
 tggcggaagg gttggagcca tgtagttagg cactgaaaat ggtgggcagc 470

<210> 29126  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004h09d1  
 <400> 29126

aaaaaagcaa cataaaataa tttaaaaaac cattacactt tttttaatag aaagggggag 60  
 aatataaaat tttacaagat taaaacattt gatttttgat tgggcatgtg ctataagagg 120  
 caggtaaatt tgatattgca gggatgacat atttgaaatt aagcacagtt tgtaaaacat 180  
 gcatgagcta agaggcagct aaagtaaaat gttttttttt attcctacat aatattgata 240  
 atgcagcctt ttttcaagca aacattttcc attgggtccgt cagttaaaaa tccttgacgt 300  
 gcattattca tcaacgactt ccgtctcaag ctctccacta tgtagtccgc atacaagctc 360  
 atggatctat taaccgcttt aaaagcaact gaggcaggca aaaaggcggt ta 412

<210> 29127  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400004h12d1  
 <400> 29127

aaaaaaggaa agcccctttg taattagagg ggaaagtcct tcttaaaaga gtttttgaaa 60  
 tttttgcccc cccctttttt aataaaacag tccttttaac ccagttaaca aagaccccca 120  
 aacacctttg aagccctggg aaaaaaaaca agaagctttt gggggcattc cccttttttt 180  
 tttaaaattc aaaggggggg gtccccaag ctttcccccc ttttttttgg ttaccgcaaa 240  
 tttgcaattt gacccaacat ttttccatt ttgggggcta aaaggagggc ccttctgggg 300  
 gggggacaac cttccggttt tgaggggggg ccatttcctt tttcaggggg ggcaaaatgt 360  
 ccccatggg ggaccctttt tgccaatttg gaaaaaacc aaatttttt 409

<210> 29128  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005a01d1

<400> 29128

atcttcatct tcatcagact catcaccca acgagccaca tgcttctcta agggagcagg 60  
 cttggtaggc tttttagctt tagttgtctg acttgtttca gttctttgtg ccacaacctt 120  
 cgaatcaggt tcatccttta cattaacaga ttctcttgga gatttctttt cttgttccat 180  
 agttgtgttc gagaccatgg gaatattttt ggaagccctt tcagttattg cattaggcat 240  
 tacaagaggc tcttcatcag gaccaagtga tcggccatcc agggtttgca gtcgcctcag 300  
 cgtactccta gtgttgcacg ggacatagtc ccttctgaac tcatcatttt tgttccatag 360  
 cttcatgatt c 371

<210> 29129  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005a02d1

<400> 29129

atctccaagg acaaatagta gaaagggagg ttatgttttt cttacaaaag cacaagagta 60  
 taatgcatct tttacgataa ttttcttaca acctgaata acctctattg tcttcgtatt 120  
 gctccatgaa ttcattcattg aactttttga aactatccat aatagcgggc atgtcttcct 180  
 cgtctggtaa aatagtagtc ctcaaagtga agacccttc tctctgtcca aatcctgaac 240  
 caggaacagt ggatatgcca gtggcttcca aaagtttgag gcagtagaaa acatctggaa 300  
 cctttgcagc ctgttttagca gcctctaaag ctcttggcgg caaacgtatt tgaggggaatg 360  
 aatacatggc accttcagta aaattacaaa ccacatttct gcaactgttg aatccatcag 420  
 tcattagcct tgctcttctt ctcaagtatt caagtatttc ggtgctctcc ctaacaaatt 480  
 tgtcataaga aata 494

<210> 29130

<211> 401  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005a06d1

<400> 29130

agatagtatt aaaaattttg cgctgataac gtatcgaatt tgtactcccc ctccccctta 60  
 ttatatattga atatatggca atctttcagc caacaagtga agcataaatc tggtagagct 120  
 ttgtttctat aattaagaga ccgaaagaaa ggcttgctgt ccagctacat ctgaagattt 180  
 gcaggcatgt attatattgc atatatctgt cgtctctagg attttctctg catgggtcaaa 240  
 aatcaagggt ccatactcga aaaccattct cttgcactta tttgcatact tctccactga 300  
 attgcacacc ttcagtaatg tctcaattat ctctagctta gtgtcactct ccttcaactt 360  
 ttccaataga gttgaaacag tatctttggc aaactcacag c 401

<210> 29131  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005a07d1

<400> 29131

ggggggatga aactgggata tgcaatcggt attgcgcgcc ttgtacccaa acatttaatt 60  
 ttcatatttt acaacaaaaa acagacttta aaaatctgcc aagactaaat aacgttacca 120  
 gccaaaacct aaagggtaaa tttatcacgc agttataact gcattatgca aacaaaagat 180  
 aaaaaccatg ccgaaattat agaaccttta ctaccataaa ttgcactact ggtgagcaca 240  
 ttgcactcgt tgaccagatg ggatcatcat atcttcatca tatgcctcgc gatattgctg 300  
 gtgctgcttt cggctcatct cctccttaaa ggtgacatca tgcaaagggg tctcctcaca 360  
 atcatccagc tccatgtttg acacatgctt gctgctcttt tgagggaaca ccttt 415

<210> 29132  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005a08d1

<400> 29132

gggggggggaa aaaaaccccc ccccttaaatt tggggggggg gggaaaaaaa aaaaaaaaaa 60  
 cgggaaaatt tccccccatt ttttggggcc ccaagggaag aaaaaccccc ccaaggggacc 120  
 ccggggggaaa aaaaaattgc cccccaaaaa aaaaaaaaaa atttgtaaatt tggaaaaaaa 180  
 accaaaaaatt aggggtttttt gggggccccta agaaaaaaa aagggttaggg ggggggggttt 240  
 aaaaaaaaaa ggggggaaaaa actttttccc aaatttaaaa aaagccccaa gaaaaaacia 300  
 agggccccc aa ccccccttaa aaaaaaaaaat tttgggaaag ggaaccccaa aaaagggggg 360  
 ccctggggctc caaaaaaacc tttggggggg gg 392

<210> 29133

<211> 544

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400005a09d1

<400> 29133

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 aattaccatg atgcaaacat cttgagttga cagaatttga tgtaaacaac atatataaag 120  
 ccgctagcat aaggagaaga ttaattgccc caatttttaa taatctcgct gctcccgaat 180  
 ccaacatttt ttcccgatct gattagcaga taagagacag aagttcccaa gcagcatagt 240  
 gagaacaaaa ataataacac aataaaggct ctatgcaatt tttgagaggg acaaattcct 300  
 ttcaaggcac ttgagtgagg taggggtgac atgcatgaac aagtagttcc cagcaaaaag 360  
 gtcacaaaaa tgaacttgac cttccttgaa tcttttcac acttttagcat atgaaattct 420  
 catggaagaa accaacctag ccctttttct ccaaagtctt ctcaagcttg gaattttgag 480  
 tctaaacctt ctctaatgg gaacccttct aaacctgaac cagcttcttg acctnctttc 540  
 cctt 544

<210> 29134

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400005a10d1



<400> 29134

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 tgggtgtcagc ctaacattga gaccatactc agaatgtttg ttagtaacaa taattgtcag 120  
 cactgcatca gttgccatag actgtgacag tcaagtagac tggaagccac taaacagaaa 180  
 gcaacaggat tggttgttgg tactgtttgt atgattggag caacaggcag ctaaaaggca 240  
 cctattcaaa cagagatgac cgccacacgc atcctcacca cactttgcaa gtattaaccc 300  
 caggcacaag aggccctacc atgagatgga cggaagatt ggcagacaaa gagattcatt 360  
 tagttagtcc tgccaataat aaaatcatca tcacccccca gcattttgat catagtgaga 420  
 gtctcagcca ctagctcttg aatcttctcc tttcatcttg gcaaaataat agccccacaa 480  
 cacatcaaaa taatatctct aggccctct tccaagttct aacacatg 528

<210> 29135

<211> 581

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400005a12d1

<400> 29135

acttcaaaga aggaaaccta cacaacttt ttttttgtat aatggaagag ataaatacac 60  
 aataataaag taaattaagt atgcatcaag aaacacaaa gaaaccaca aggctgtcat 120  
 atgatgaaat gaaaacaaag cacaccacaa tcatgcatct ccaaccaaca aaaaagcctt 180  
 gtctcaatct taaatatcaa tgagcaccac tctccttttc cttttccttt tctcctctg 240  
 tcttgagtg ataccagga agcttctctt ttatcttttc taatatacct ttcttctcct 300  
 tggcctctcc ttcagatga gcaccttcac catgctcaa tgatgaaca ggtggtggtg 360  
 gaggaggagt agtagctgtg gctcctctg tcttcttggt cctggtagc ttctccttaa 420  
 tcttgctgag gaacccttc ttttcctcag catgtgctgt ttcaacaacc tcaactttct 480  
 caacagggac acttggtgtc tcatccttgt gatgatgatg atcaccctct aatttctcct 540  
 cgatcttctc tttcagccct ttctttcctt ctcttcttct t 581

<210> 29136

<211> 404

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005b01a1

<400> 29136  
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 gtttcctcgt tcgaattcgc tttttgatct gcgaaaatga gagagtgcac ctcgatccac 120  
 attggtcagg ctggtatcca ggtcggaaat gcttgctggg agctctactg cctcgagcac 180  
 ggcatcgggc ccgatgggca aatgccaaagt gacaagacag ttggcgggtgg tgatgatgct 240  
 ttcaatactt tcttcagcga gactggtgct ggaaagcacg tgccacgtgc agtgtttgta 300  
 gatcttgagc ccactgttat tgatgaagtg agaaccggaa cttaccgtca gcttttccac 360  
 ccagagcagc tcatcagcgg caaagaagat gccgacaaca actt 404

<210> 29137  
 <211> 308  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005b02d1

<400> 29137  
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 caaaaaaact ctataaaggg acaaaaaaaaa aacccccctt ggaggggaaa aaaaaaactt 120  
 tccaaaagca cattttttgt gagtctcggg aaaaaaaaaa ctccctttta aaaaaaaaaa 180  
 tttgccataa aagaaaaaaaa tcccctacct tggcacaact gggcttaaaa aaaacccttt 240  
 tgggtttttc ttcccaaggg gggggagccc ggtctgtaca agggccctgg ccctaccctc 300  
 cttttttc 308

<210> 29138  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005b05d1

<400> 29138  
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ataaattggg agcaaaagga gaaaagggtg aaataaaacc ttttaagctt tgatgagatg 120  
 acctccaacc tcttacagaa gataaagttg tcatggaaca cccttattat tcatccacac 180  
 ctaacaagac atccgttgaa gggactgact aacttcacaa caatgttaag cttgaggctt 240  
 ctcaaacttg agtggctcca caccttcccc ggtgaagcca gggcatccc ttccaaagtg 300  
 ttcataagcc gctgttttga ggaacctatg gtctcccctc ttaaggccca acttaatgg 359

<210> 29139  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005b08d1

<400> 29139

cttcagaaa tagtatttaa tattataagc agagattcat aattcagatt agccgaactt 60  
 tatacagaag cgaccaatta ccaaacatta aaaaaaaaaa aaagaagcaa ccatgagctt 120  
 aacacacca tcacaagtcc aaaacacttg aacttgctga aaggcaagac atgaccactt 180  
 tattctaagg atgtttgttt aacacaaaac accagagggc acgaaaacca tcacagacat 240  
 aatacataag tttttagcta cacattaata gtttatcatt attcctaatt aagggctatc 300  
 tctgcttgaa gcttgctctc ccaacacctc acttgcaagt gcagggggtg caggagcaat 360  
 ttggtccaca ttt 373

<210> 29140  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400005b09d1

<400> 29140

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 tatttatcca tgcattggtt tatatgacct tagcattaca attcgaaact ttccacatat 120  
 ggtgtcacag ttogtcacga tagagtattt cctccaacaa tttcttcttc ttacaacccc 180  
 aattgcattt agtgttgac aaggaattaa acagtgaag cctagtggat tgaagttgta 240

taatgcctga ggtggaaggg gattttgaga gaacaattgc ataccatca tccatgttat 300  
 cggttccatc agggaaaaat tgccacaaaa ggcttccagc cccactcccc cttttctttg 360  
 tggagttag gatggtactg tacacagtgc ttataactgt gtctctatat gatgaattgt 420  
 agccagggtc tttggaagat acaccaaact cagcaaaaac aactggcatt ccaagatact 480  
 tttcagcatc ctctatgtgg gcttccatnc catgatttat aaatgggata t 531

<210> 29141  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005b10d1  
 <400> 29141

cttccaaata ctccacatt cttattgtgt agctgccttt tttcccttta tattatttta 60  
 atatgattat gtataattga gggataaaaa gaaaatacaa aaaaaaggaa gaaaaaagat 120  
 ccaaattggt gtttttttaa aagagagggc acaccacgcg cttgggtggc acagcaatga 180  
 gtcgctgga tcttgagcgt gtgagtcgga acacgtcacc catgtccatc tcacttggct 240  
 tcatcccatc tggcaattcc cacgtgaagc agtgaaggag gtgcgccacc gccaaactcga 300  
 gcgcgtagag cccaacacc atcccggggc aggatctgcg acccgacccg aatggaatga 360  
 actcgaagtt gtcctctttg aaatcgggca cgcccgggtt aagaaaccgg gcgggcttga 420  
 agctctcggg ttccctcccag ctgttcttgt cctcccaat ggcccacgcg ttgatcatga 480  
 cacgc 485

<210> 29142  
 <211> 394  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005c02d1  
 <400> 29142

atacaaacca gaaatttcta aattatcttc ttttctaca ttaattctaa ccttgatata 60  
 aaggaaaata tcatttcccc taaatacaaa ggtgcaactc ggacgctata ttctgcat 120  
 cattttcact ccattaactt acacctaaga aaggctgtgc ggccctttat ttgaggaatt 180

gccttttaga agtgaaactt gcttcatacc caaccaaagc cgaacttaga gagctacgca 240  
gctccacgaa tcgtctcgac taccacaccc atatacttcc gtgctgacca gggaaaagaa 300  
cacttttagtc tttccaattg atgtggaccc aggcgatgtt agaatcacag gcaattcttt 360  
ttacttgggg agcgtatata aataagagcc aggg 394

<210> 29143  
<211> 470  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400005c05d1  
<400> 29143

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tgggggggcaa aaactttctc ccaggggtta ctaaccttta tggacgcaat cttgctgctt 120  
tgatttttaa ttgatgtgct tgcaactaaa tatggcagtg ggctcctctt tcctaagtgg 180  
tgctttgggg cggccaaaga agttttgctc ctactgtgtg gtcagtaagc gaccatgccc 240  
aaactttgaa gaggtgtcga ttaacttgag cttgatctcc tccacagcac cacgcgaagg 300  
ctgccttttg agggatcggc gcaatgtaat caccctattc ttgggaccaa cgcgaaatcc 360  
tttgaccttg agataatcat ccttaacaca ccatagttag ggaaaccacc tattggggaa 420  
atgtctctct cggtcctatc aaactcagta agagcagagt gagattcatc 470

<210> 29144  
<211> 453  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400005c06d1  
<400> 29144

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ggggaaaaaa ctactacta ggggatccat aatgtcaaaa cagaaaacac tccgatatgt 120  
ttataacaca ttgcaaccgc atagaaatcc ggcatttcca tccaattaac aaaattatgc 180  
tttgaggcgt ccaaagaact tttgcttcta ctgagtggtc tggaagcgac cctgccc aaa 240  
ctttgaagag gtgtcgatta acttgagctt gatcttctcc agagcaacac gagaagtctg 300



tcagagtgaa tggcagaagc agtttgggtca ccttcttcgg ggggccc aaa taccagtc 360  
 tgtggatgtg gggccagta ttcgccgat tgtgttgccg cctggacaca tcgtctggga 420  
 cctgcccata ctggatctca ttatcaggg 449

<210> 29147  
 <211> 596  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400005c09d1  
 <400> 29147

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 gccaatccta taaaaggatt tgcaatttca aaactgaaca aatctttctt agcgtcgag 120  
 tgtgattaac aatggctaaa caaaaaagaa ctgaaccttg cgctacagaa tctttttgct 180  
 atatagaaag gtagattctt cagttcagta tggtattttt ctttcattac aaattataga 240  
 aaactgaaca attcaagccc aattgccatc tgggataatt catattaatc tttgagcgca 300  
 catggtactg aaaaacaaag acaaggggat cctggtcgtg gaagaaacat cagttcttgt 360  
 gttctttttc gatgtcataa agcacacag catctgctgc tgtcttcac tggataacat 420  
 ttataatttg cttgactgcc catccaaata aactagtacc cattagaaga gaaaggaatg 480  
 atatcttttg taaattactt gatataacgt tcaccagttt ctctgttnga ttcttcgcan 540  
 gataaaacag gattaagtaa agaccttaca tgagacacag cagtaagcca taaaca 596

<210> 29148  
 <211> 555  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400005c10d1  
 <400> 29148

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 tcctcaagtt ttgtttgttc tgccttcaga tcttccttgg atcgcttcca tgtttggtag 120  
 tatgttttcc aattaattgg ggggccagac aaaatccagt atccaccagg cottaagact 180

cggTcaactt ccattagata catgccctca tttgaggtcc atggtattag acatcgagag 240  
 cactggggcca tatcgaaggc tcttgatggg tatggaaggt ggatgggtgcc aaggacacca 300  
 ataacagcag gcacccctcg ttctagagca aactgaactt gtgcttcattg gttgtccttt 360  
 ggagcgaagg acatagccag cacatttctc tttagcaagt aggctcccca gcttgcaacc 420  
 ccacaaccag tgtccagtgc tgttctgaca gaaccatcag caattggaat aactgacgca 480  
 ngttcatcaa tatatgcac tgctccgtga gggaacatgg tccctccacc tggaaaatta 540  
 aacacatttc cctgg 555

<210> 29149  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005d01a1  
 <400> 29149

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 caggttgttg gttaatagtg ttctgtgtca gaaaatgttg tgaatgagag atgtgtattg 120  
 ctagcagttt gactgcacag ttgaattagt atgctactaa agggattctg ctggatgtca 180  
 aatgatgttt aagatttgat atacagtaaa aagaaattgg agactatgga agaaatacag 240  
 tctcaatcag ataattatag atcttcgtca tcgtcggcaa gcagcccggc aagtaagggt 300  
 ccatcaagta acttttttta cctgcgtaaa cctgggtcac ttaggcagtc catctctttt 360  
 gaggattcac ctgagtggga ggatactgat attgatg 397

<210> 29150  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005d01d1  
 <400> 29150

ggatacatc cagaatttgc taaattaaca gccgtggctc cattaattga aacttagata 60  
 tcaaggaaca tatcaagacc cctagatata aaggagcatc ttggaagcga aattcctgaa 120  
 atcaatggca ctcacatgc tcatacccaa gaaaggagat acgggtccgtc cttatgagaa 180



ccgtcgaaac aatgacgcac cggtatTTTT ctccccacag agaagacatg tcagatgaac 240  
acagaaatac ggataaccaa tggccataag aaacaaaacc aacagactgt tccac 295

<210> 29151  
<211> 394  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400005d02d1  
  
<400> 29151

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gaaaatatca tttttcgtaa atacaaagga gcaactggga cgttaaattc ctgtcatagt 120  
tatcacccaa ataactcaca cctaagaaag gcagagcggc cctttatttg aggaattgcc 180  
tattagaagt caaacatggt tatttcccaa ccaaagctgc ctttagagag ctg'gcagct 240  
ccacgcacgc ttccagtttc cctaccata tacttccggt ccgacattgg aaagggtcat 300  
tttagtcttc ccaattgata tggaccgcgc cgatgtgaga aacacgggca attcttttac 360  
cttggtgaga aaacataaat aagagccagg gtct 394

<210> 29152  
<211> 345  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400005d04d1  
  
<400> 29152

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tcaaggaaca tatcatgtcc ccaagatacc aaggtgcaac ttggacgcaa caccctgat 120  
gtcatattca ccccatcgcc tgacacctga gaaaggctga gcggtcctct atctgaggag 180  
ttgccttttt gaagtgactc ctgcttcata cccaacaaat gccgacatta gtgaccttct 240  
cagctccgcg aatcgaccgc actgccaac ccagatactt ccgtgcagac caggcaacag 300  
tacagtttcg tcggtcccat tgatttgggc ccgcgcgatg tcaaa 345

<210> 29153  
<211> 541

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005d06d1

<400> 29153

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aattcatcat tgaacttttt gaaactatcc ataatagcgg gcatgtcttc ctgctctggt  180
aaaatagaag tcctcaaagtg gaagaccctt tctctctgtc caaatcctga accaggaaca  240
gtggatatgc cagtggcttc caaaagtttg aggcagtaga aaacatctgg aacctttgca  300
gcctgtttag cagcctctaa agctcttggc ggccaacgct tttgagggaa tgaatacatg  360
gcaccttcag tgaaattaca aaccacattt tctgcaactg ttgaatccat cagtcattag  420
ccttgctctt cttctcagtg attcaagtat ttcggagctc tccctaacaa atttggtata  480
aaaaatatct cccggttgag gtggatggag cataactccc ataaatattg tgctggaaca  540
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<210> 29154  
<211> 230  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005d08d1

<400> 29154

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gtatgtaaaa cccgaaattg ttacacaaga aaaagaccgg gaactcctga agatgagata  180
ttttaaaagg aactgcacaa taagcctaaa acaagatata atttgaaatt                230

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<210> 29155  
<211> 488  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005d09d1

<400> 29155

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 attaaggaaa agaaagagtc caaatccgag attaggtttg attaatagta acaaaaaaca 180  
 acacgcggat ggtggatgga ttatggaaga agaattgatca atcatctggt ggttctgtta 240  
 ttgaaattca tcttctcgta gtagcgaata gagaggagcg aaagagagag gtgaacctcg 300  
 tctttcccca aacgtagcgg ttctgatcga atcatctgcg gtacgggtggg gcccaggcc 360  
 gaggaggaag aggaagagga tgaagatgat gttagttggt gtagttgttg aggtttggag 420  
 agagggaaga gataaagtgc gtggaggcga cggaagccac cgagcgcgag gaccacggat 480  
 cgagctg 488

<210> 29156  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005d10d1  
 <400> 29156

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 gctgtcagaa aagatatgaa tcaaggcaaa gtggcatttg ttgcacatga tatcttagca 180  
 tttcaacctt ggtctaaggg caaaatcctt ttgttgaaac cgaagaactc agaaccccaa 240  
 ggggaatttt aatcagtagt taaccttgaa tagatttgtc tctggagagc cattccctcg 300  
 aaattactca aatcccatca gttaaattta ccaagctcca tcttcttctt gatagccctt 360  
 tgaccgtgat agatgaatga atctagtatt ccagaaacgg tgaaaatacc tccaactatg 420  
 gcacaaacat tagtaagaaa atgtaagaat gagacatttt cttctgtaaa agtaacctta 480  
 attggagaga ggtcatagaa taagaaaacc ccgggaaggg act 523

<210> 29157  
 <211> 445  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005e03d1

<400> 29157

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tccaggaacc tatcatgacc ccaaaatacc aaggtgcaac acggaaggaa tccccccgcc 120

gtcaaagtca ctccattcgc tgacaactaa gaaaggctga gcgggactct atctgacgag 180

tccgatttga gaagagacac ctgcttcaaa cccaacaaag gccgccctta gtgacccccg 240

cagcaccgag aatcgtccag actacccaac ccagccactt ccgtgcagac catgcaacag 300

aacagtttcg cctgccccac cgataccgcc ccacgcgatg ccaaaaacac tggcaccccc 360

gttgcccttg gccgaccttg gaagaaagag ccagggcccc cggctgctgg gaaccctgag 420

gaggatgcgc aaatgataac atcta 445

<210> 29158

<211> 304

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400005e04d1

<400> 29158

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caaggaacat atcatgtccc gaaaatacac aggtgcacct tggaagcaat cccctgacg 120

acattttcac tccattcact cacacctgag aaggggtgta cggccctcta tctgaggagt 180

cgcctttag aagagccacc cgtttcacac acaaccaagg ccgccctgac tgagccgcgc 240

agcaccgcga atcgaccag ctteccaacc tagatacttc catgcagaca atgcaacagt 300

acac 304

<210> 29159

<211> 169

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400005e06d1

<400> 29159

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taaaggaaca tatcgctctt cttaaagtct ggactcctct agggaaacta atctgctggt 120

tttgcaattca ctctctcttt ataccata gaaaggctgg ggcctctt

169

<210> 29160  
<211> 301  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005e07d1

<400> 29160

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aaggaaaata tcatgacccc aaaattccaa agtgcaactt ggacggaatt ctctgtaat 120  
catattcact ccataaactg acacctaaga aagggtgagc gggactttat gtgacgactc 180  
gcatttcaga cgtgacattt gtatgctata caaccaaggc ctggcttctt taccacgca 240  
gctctacgaa aagactagac tttcctaccc aaccactatt cttcgtcca gggaaaagaa 300  
c 301

<210> 29161  
<211> 431  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005e09d1

<400> 29161

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tttttttcac tacttataag gctaatacgg tcttagagct gaagcagtgc tttgaatggg 180  
cctggcaagc ctcaagatct aatgctgaat tgcagcaagc ctttctttgt aactcgattt 240  
gtccatccta gccagagagt cagcgattct acggaagaaa tccaacttgc tttcatggtc 300  
gatgggaggc caaaaaacia gatgtttgaa ccattgggta ccttgaagcc catcgacgtg 360  
caagaagcct atttccgcaa gcgttaggct atcattgaac gctcgcatth gcatagctat 420  
agaacgatct g 431

<210> 29162  
<211> 475

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005e10d1  
 <400> 29162

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 caagtgacaa ccctgatgtc atgataatta tgggggattt tttactctat ttaccacaaa 180  
 aaataattac gatgaacgaa ttgcacagag taaaaagaat gatttgggta gggggaatgc 240  
 caaaaccgaa atgatcaatc atttaatcac ccaaacaaaa ctggataatt tgcttccatg 300  
 gttatatccc tgccttcggc cacaactttg cgggggcgcc taaaacctgg tcttcgatct 360  
 tttccgcgcc tttcaggacc ttttctaaca accttttccg ggaaagtttc aacaggaggt 420  
 ggaggactga gagcaacatt cactggagca gccaggcgct ccaatatatc cctat 475

<210> 29163  
 <211> 525  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005e12d1  
 <400> 29163

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 attataatgg aaatttcagt gtcattatga aaataggcag ttcagaaacg cgtactaatg 120  
 gaaggacaaa ctaaaatagc ccagtacatc cacaattcat aacgaagaac atgaatgccc 180  
 aaaatctcag taacaccgag attagcattc aacaccttct ccctttgaaa acattacaca 240  
 aggggaagttc aatcactaat tagaagtatg gtatgtttaa ttttgttccc cgtcaccttt 300  
 ggggtcgggt tctttaattt catctgcacc atcatcctgc atgtcagagg tccagagggt 360  
 aagggttatca cgaagaagtt gcatgatcaa agtgctatcc ttgtatgatt cctctcccaa 420  
 cgtatccaat tcagcaatag cctcatcaaa agcctgtttt gcaaggctgc atgcacgata 480  
 aggagagtta agaattctcat agtaaaacac agagaaattc agagc 525

<210> 29164  
 <211> 414

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005f01d1

<400> 29164

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cggggaccaa aagcctaaaa cctggggaaa aaaaaacccc ccggggggtt ttccaaaaat 120  
tgggggggcc ccccttttga aaacaaaaaa gggggtgggg gccccccccc ctttaaaaaa 180  
aaatttttgt tcccccggg ccagaacccc gaaacccgaa ccccgggggg ttttttctaa 240  
aaaaccgccc ccttttggac cccaattgga aacccctag ggggggggaa aattgtgggg 300  
gggcccttaa acggcccaa acttttcccg tgcggggggc caattccaac cccgggcccc 360  
aaaccaatat accccccccg gggaacaggg cccccaaaaa aagggggccc ccca 414

<210> 29165  
<211> 327  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005f02d1

<400> 29165

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tcaaggaacc aatcatgacc ccaaaatata aaggtgcaac agggacgcta ccccccgcc 120  
tacattatca ctccattaac tcacacctca gaaaggccga acggtccact atgtgaagac 180  
tcgccttggga gaagtgaatc atgcatcata cccaaccaag gcctgcctta gagacctccg 240  
cagttccacg caaagtcccg gctacecgac ccatatacct ccgtgctgac caggggccag 300  
tacactttag tctgcccaat tgatgtg 327

<210> 29166  
<211> 290  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005f07d1

<400> 29166

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ggacaaatcc acccccgaag atacaaaagt gttgctcgga agcaaaaccc cgccttaaa 120  
 tggcacccaa ttaactcaca actcaaaaag gcagcacggt cctctagctg aagaaccgca 180  
 taggggacgc caggcacgct taatacccaa caaaggcttc ccagccagcc cttctctgta 240  
 cccacgatta gtccatccta gccaacccat aaactagtgc gcggacaagg 290

<210> 29167  
 <211> 556  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005f09d1

<400> 29167

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 aatcgatcacc accattacca actaaaagct aaccttccca acaataaaaag cccgaataaa 120  
 acaatcattg aacaactgaa cactcgaatc tgcaacaact ttataccctg aaaccacacc 180  
 aaacaccgaa acaacctctt gatttcctta cactacactt gtctttattt cttcttattt 240  
 ttcccgttta aagtaaacca atgaatctcc tgctcaaact tggaacaatt ttattctgtg 300  
 caattccttt tggaacttta tgagtatgaa aaatcagagg agccacctat aagtcacac 360  
 cgtgtgtttg ctgcttccat gctgcttctt gtagaggccc tgctgtctct tgacaaggcc 420  
 atcctgattc cgggtggtctt tgtcttcttt gacgaggtag ttgtcgacct gtgctgctgc 480  
 tagtcgtccc tctgaaatcg cccacaccac cagggactga ccacggcgac aatcaccggc 540  
 tgcaaacacc cctttg 556

<210> 29168  
 <211> 516  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005f10d1

<400> 29168

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 gaaaacaatg aacaaccctt gccagttagt tgcaccaacc aacaaggcac caaccatagt 180



accaatcaaa aggtaaaaag agagagagac caaatcctac taagaaaagc ataactgttc 240  
 ctttccatcc aaagggagaa aacatgcagg ttttgtcat ggcttcaca gaatggttgt 300  
 gtctgcaatc atggaagtaa ccacgtatgg gtccatgttg gaagctggcc ttctgtcctc 360  
 aaaatatccc ttccctgctt tctctgtgtc tctcccaacc ctaacagaag ctccacggtt 420  
 tgcaactccc cataagaagg tgttgatgtc agcgggttcg tggcgtcctg tcaaacgacg 480  
 ttcgttgcct tctccataag cagcaatgtg ctcctt 516

<210> 29169  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005g02d1  
 <400> 29169

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 tcacataaat ccagtcaga caaagtagtg ggaacaacc tctttgttgt actacactac 180  
 aaatatagaa agctgcattt caattagctc tgggttcaca gaagatttta gttatacaac 240  
 ccggaaagat tcagctatct tcttcaaate attgtagtgt ctcttcact gaagaccgct 300  
 gcctgttact ccaaacaat ataagcgggt gccagctgca gtggcagtaa tgaaaatatg 360  
 gggaggctct agctcaaact ggtagtaagt tcttccttca tgttctgctg cactaacgct 420  
 cagaaccttc cttctacat tttcccaat catttctgga ccaaatgcat tgatcacttt 480  
 ctctggggtc caatttt 497

<210> 29170  
 <211> 370  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400005g03d1  
 <400> 29170

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 aaggaaaaaa tcatttcccg aaaatgcaaa ggagtaaagt ggacgctaaa atgcagccat 120

aactaacacc caaagaactc acacctaaga aaggctgcgg gggcccccat ctgaagactc 180  
gcctctggga agttaggggg gaataaacc caaccaatgc cgcctataga gagctgcgca 240  
gatccacgca tagaccgggt tggcccaccc aaatacttcc gtgcggacat gggacaggcc 300  
cactttcctc ttcacaatcg atggggggccc acgcgatgtt agaaacactg ggaattctta 360  
tttgttgggg 370

<210> 29171  
<211> 323  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005g04d1

<400> 29171

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ccatgctgat gtacttgata acttccttag atgggacggg accaaagcta tatatgagcc 180  
cctgggacgt tagctttgag tgaggaccat gaaatgcgca cagtagtaca tacaggagaa 240  
catggatgag ccacttttgc ccataccccc agctaaggtc cataaaagtg accctgacaa 300  
tgccacataa caaccactt atg 323

<210> 29172  
<211> 480  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005g06d1

<400> 29172

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cattacgaag aataatcttc taaatacaac aaaatattac aatgagcaga ggatacatta 120  
aacggaggcc aaaagaaaaa aacgatactt tgaatataac acttgacgt gtaaattgga 180  
cccgtccaat ataatatata ataagactat caccatagtg tagagtgcac aaatcatgtc 240  
ttgaaaaaag acaactgatc ctaaagtgtg aaaagtgata caaaacattt tttctgctca 300  
acaacgaaat tacaactgat cctaaatggt gaaaagtgat acaaaacatt ttttctgctc 360

aacaacgaaa tttcttttgt tagatgtcat tatcaagaca ttgagcgggc tctgagaaaa 420  
cgccaaggtc cagttcctgt tcccatcctc cacacgccag caaacatgcg aagactcatg 480

<210> 29173  
<211> 330  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400005g07d1  
  
<400> 29173

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gcatgttatt gttgtttcag gtaacattta taccttcctt ccagccgcaa atgtcacaaa 120  
ctaggtctta aatctcaatc taccttttcc acttatttgg ggctcccaaa ctcattatat 180  
gccctacta ccctaggaca caatttttta taaaactaaa aaaccttacc tttttcaact 240  
ccaacaaccc tgggtaaaat taaaaaacia acccctctta aacaagccaa agggagtgat 300  
accatcactt ttatgggggt ggccactgat 330

<210> 29174  
<211> 303  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400005g09d1  
  
<400> 29174

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tttaatacaa tcacgcaagg caaaaaata actctataca cgtgaaacga gtttcctctc 120  
caatctgata acctctttat tccttaaggg cgatatgtaa ctcaaaacca aggttgtaga 180  
gtctataatg accttgctat tttgtatgtt ttaggtgctg aacttctgct cagtgggtgct 240  
tgctgtggcc ccaactgatg ttacaaaatt gcaaactgca catttcacgg atctggctcc 300  
ata 303

<210> 29175  
<211> 597  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400005g12d1

<400> 29175

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gcttaatcaa tgacaaccac tttgggggtcc acttgccaga gaaaatacat ccatcggtag   180
agaaaagggg gttataaatt tatattatac aataaaaaaa attcagcatc ctttgttcaa   240
cgttttctcca agtcttccct gatctagaag ttggaactcc cgtttgaatc tctggattaa   300
cctgaacttt gttctttgca acatatgtca tcctatccct aataatattg tgtaatattg   360
gatagtagaa gcatttcaaa tgaataaaat aattaaataa ataaataaac tttgtcagaa   420
taaccaagaa gcattgccat ggcagcccta gctcatgcta ccatctgctc ctgctctata   480
tacagctgct ccatccatgg tggaagcatc tctttactga gatcatattg atgcttctca   540
gcaccaaata tctcagacct cttcgaggga acatctttaa ccaatgaatg acccatg     597

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<210> 29176

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400005h01d1

<400> 29176

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gaggggggcaa catatcatgcc acacaaattt taaaaaaact tgaatcatca ttatcttcac   120
cattcatcaa ttcaaacaac atcatcatca tcaccatttc caaaacattt cttcttcatg   180
cttcttaaaa gggcttccct cttccccctt cttgtggatc cgctcaattg attttttttt   240
ctttctttcc atcatatcat tcattcagaa tcactttcca tgcttcccat agccttcaac   300
cctcttggtc tcttcttggt acttttcttc tccctaactt catatctctc ttggcacata   360
tcagtcaacc acgccccggg acttaccaaa agtaagcttc tttgaatgat tttggccctc   420
tttttgggtc gctgaggaag cttgcaacct ttcatggcca gaaaatcttc ctctttctcc   480
ttgcttgaga gagtgatgt                                     499

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<210> 29177  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005h02d1

<400> 29177

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 cttccaacaa aagaggactc actttccaag caattttatac agttaaaaca ttcgctttta 180  
 catcccccat agttaaatca aaacaggcta tgcagtgtct ggcctaatac gtttcctccc 240  
 caacagcatt gggtttcttc atgctggtgt tatcatggga gtttacagca tccacaacta 300  
 cattatgatt tgggctactt acttccactg gagcacccat ttccagcatg ggctccc 357

<210> 29178  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005h05d1

<400> 29178

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 aacctgacca acaataactaa gagatgatcg tagatagata tattacaaat cccacaatca 120  
 agaatcaaga tggtatccaa ttgattgcac cgacaaaaaa acattacatt caaatgact 180  
 atgagacaga cattgctgct tcaagcctcc aaccatgcaa atgagagaaa ctaggatttg 240  
 aggaactgga atacaaccag aacgttgagt ctgttggtgct ccaatagcct gctctagttt 300  
 ttataatgat gatcattgac taattgaagg acgttcataa aaggacagaa atgaagaaga 360  
 aataggtgca ttgttgatct agccacggct gtttataaat aaatatagta ctgaagcacc 420  
 ttgtaccata acaaacatca aaccacagt ttaatgcc 459

<210> 29179  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400005h08d1

<400> 29179

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 aactcatgta accctgccaa ttaaccatta cccctaaact ccagcaccag cagcttggtc 120  
 actttaatac acaactccca gaatttttta tgtcaccacg tggcaagcac gctgatgtgg 180  
 agccaagtgt tgggcttaca cgtaggggta ccctccataa tacaaccaa gacttaagca 240  
 tcatataata atattaataa agtaaaactta agaaattaaa agaaaaaaaa aaaaaagagg 300  
 gtttttaaca tggcatgcaa aatgggagac ctgatcccca caacttggac cattttttaa 360  
 cttgggtttt tcactcacac tggccatagg gctaagcttc agtcttttca acaggaacct 420  
 ttactgggggt ttcaactgac tcaactggtt tgggtctcttc ctctgggggt gct 473

<210> 29180

<211> 415

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400005h09d1

<400> 29180

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 aatttaagat accctgaggc ataaaccaac cattgggtga caagctttcg gttttgctaa 120  
 aagcttaatt acaaattttc aggttaattaa caaataaacc gaaacttaaa agtactgggg 180  
 ggccattaaa ttaccgaatc ccttgaaacg aaaccttcca aaaactgggc cttaaaagta 240  
 aaaaactcct ccaatttaat ttatatatat atgccacatt atccaatttt aggggaaaca 300  
 cacattttcc aaaggagaaa ttttcaagaa aagtggatgg aggaggagggt tgaaaattct 360  
 tccatatttc cttttggggg cttttttttc ttcttgaagg gataccttta gcctt 415

<210> 29181

<211> 321

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400006a02d1

<400> 29181

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ttataaccba cccaaggaa gggttacatg tttgaaagcc taaaaaaacg gggttttcct 120  
 ccaaaccaaa ttttttttcc aatacctttg ttaaaccctc catgaacatt ggggtttcct 180  
 acaaaaaccc caaagggccg gaaattggaa aaaaacccaa attggggggg gggaaaggga 240  
 agcccttttt aggcccttgg tgttaaaaaa agatgggaaa ttttgccccc cgatttaggg 300  
 ctggataaaa aggggtcccc c 321

<210> 29182  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006a04d1

<400> 29182  
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 gaatcatata atcctcaaca taaaagggtg gataagtacg gaagagtttt tctttttcca 120  
 gagcacaagt caagaaaaat aaaatataag caaccatact gccacctaaa tgatcaaaat 180  
 acagaggtga acaattttat agttccatat tgaatcagaa atgaacaatt tcaaaatatt 240  
 agtaactatt atccagacac ctaaaaatth tggaacaca aaagccgcca ttgcatttcg 300  
 actcagacaa tctctccaa ctccctagca taactaagt tctggttgat gagctgcaga 360  
 gagggatatt ctttgcaagg tgcagattct tttgcctttt ggaaaaagac actatcattc 420  
 ttaatctccc actcaggatg ctctcttta atatattcca ggagttcctg gtctgaggag 480  
 aacagcaaca ttt 493

<210> 29183  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006a05d1

<400> 29183  
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 acagatagat attctatatt ttttatctta attaataatt gaccctcct tataatgtgt 180

tatagttttc tttattttta ggaacttata cattcctttt ttaatgtgcc cgacaatccg 240  
 aaagaattct gggggagggg tcatttcgtt tttgatctag aataaataga gcttcaagaa 300  
 atgagagaat taagaatacc cagagaaaac actaatccaa tccataatga tgtaccgaa 360  
 aataacaacat ttttggtatt cgaccaacct tcaggagaag caaatacaac aggtacacta 420  
 atcaataaaa taaatgaaat agcaattaat gcaaaaacag ctaattggaa agcaatagtc 480  
 atgtttctaa t 491

<210> 29184  
 <211> 473  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400006a08d1  
 <400> 29184

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 caaataaaaa caacaacca acttccaat catcgtcacg tccagcaaaa tacattcaaa 120  
 agctatctaa aatctgggga acccacattg gcattaaaaa ccatgaccat acaatttttt 180  
 agagaaatat tatgggcacc atgcctcttc aacaatcccc taaacgttgc ttaggcata 240  
 gcaaaccxaa gctcggaaag cttttggtga gcctcagcgt aatcagcaaa gaaggcatct 300  
 tcgtccgctg catatttatc aacgagaggg cggaatacag ggtagacaaa aagagccttg 360  
 tcagaaggta gctgaaggag accttccttc taccactcaa caactccgtg aagtatgagt 420  
 tgtagaaaat aagaggatta gaggtccagg gaccctcaaa tccagaacgc tcc 473

<210> 29185  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400006a12d1  
 <400> 29185

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 tcacccccat aaaccacgtc accattaaat actcgaagaa agtcttgaac ctaatctgct 120  
 gctacttggg cccaacatg agtcagtaaa ttccaggtct gaagaaattc cagctattta 180



ttatcgtcct gcagcgtggt tttgaaatgt catcttcatt accaccggtg agtgaagaag 240  
 taaacacaag tgggcgccga gtttaacttt aaaccgcgtt acgtgtcaaa atccaattgg 300  
 cgagaaacct tcgagcttct gaaggatcta tcaagctttt cacttaaagc ccttaggatc 360  
 tgccacgtgg catccctttt ctggacctgg ctgttgaaaa gtagggcact cctcgtcact 420  
 ggggccaca ggttcctctg aatgggtgctg aggtttgtcg ctcgcacgcg ctcgagtatc 480  
 ttcgcagcct cccacg 496

<210> 29186  
 <211> 488  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400006b03d1  
 <400> 29186

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 gttacaaggc atttttagaga gagggtcgtg tcctagaaca actgttcata aagatgccaa 120  
 aatatataaa agtatcagca aacccttaa aaaatgacaa tgcatacaaa ataagcagta 180  
 gcattcaciaa ggatgctaata tgtttcatat ttcaataagc aaaatcttgg aaccttcact 240  
 tttcaatttc ttgcctcagg aagtaagcgg ctactgcaag taggatgata aataatgcaa 300  
 tccacaagct aagcccatata gtcttcttct cttcaattat tgttaccctc gcacttgaat 360  
 ccatggatac agaagccacc gtcttgaat caaggagaa tgctaaagca gttactatgc 420  
 caagggtgag cctttttatc attgtgtgaa tctgcatatt tgtngaattt acaactacaa 480  
 tgtctcct 488

<210> 29187  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400006b05d1  
 <400> 29187

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cagagtattt ctaatatggt ttacaatatc cttgagatgc taaacataaa tatgattatg 120  
 atctgactat cgatttttgg atagggatgc ttccagcttt tctttcaact gtatagcagc 180  
 agtctcccct ccctcagttc ttatggagaa tgtgtgaata attttatcat ctgtagtcga 240  
 aacactggag tcttgagcca caatttgatg ctccttgaac gttttaacaa cattagaaac 300  
 aggggtgaata tctaaggggc atctcactgt cacaactgtc tcacctctc tttcctgaaa 360  
 atccatatct ggcaatgaca atttttggtc ctgattgtgg atcatgttct tctcagcttc 420  
 caacaccttg atcttcatct ggagatcagt gataaaggta atggcatcac caagcaaaga 480  
 tgccttggtc catttagata tgtagggac aaca 514

<210> 29188  
 <211> 517  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400006b12d1  
 <400> 29188

gagaaaaatg aacatcttaa gcctgatttt atacccttgt gcaccaaag ccagcttcaa 60  
 cagagatcaa aatcaccttg aaccatattc acaactcaga atattacaga gaaaaaaaaat 120  
 taacaatact actttactta caaataaact tagcaatact ttaacaattt tcaaaaagta 180  
 aaaaaattaa ttcttcata cacatatata gacctctct tccacttgcc agtgagaata 240  
 atggcaaggc aaataatgaa gaaactacag taagtgatgc tcttttatca actgatgata 300  
 gaactgcagg tggcatgctc atggtcggtg ataacatat tttgttcttg gatccacaat 360  
 gagacctttt cctccattca cttctaagtc atgctgaaag acgaaatctg ggatgggtcaa 420  
 ttgttcacgg ggtatgtatc taaagagctg tagtagtcta tcaacatata ccactttctt 480  
 ccaaccatat tgtcaacagc aactgaagtg ccatact 517

<210> 29189  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400006c01d1  
 <400> 29189

caccaccatta aacacaatat acattttccaa aatgacaaca ctacatgcag ggattttctat 60  
 atgcagtaaa atacaacaat catacaacaa aattgatatt tcagccttcg tttccagaac 120  
 agcatatatc tgaacaacat gagatgcagc cgaagcatcc tagaccaatg cagagttgtg 180  
 ccaatgcggt tgcacattgg ctgtttatcc gggtagacga ctggatgcag cacatgcaac 240  
 agcagtaact gcacaagggt tcaaaacaat ttgtggctgc cttgaagatt tcgggcactt 300  
 taggcaatth cgattcaaat cctggaggag tattttcagc agttgcagtt aagttgccga 360  
 agccgatacc taaatgtggt agtaaaatca ttctctggcc ttggacgggt gcctcgaata 420  
 gaggattgct cttttttgac gcttcttttcg gtccagatga ttccttgact ttcttttagat 480  
 gatcagtcctc at 492

<210> 29190  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006c02d1

<400> 29190

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 ttgccagaaa tatataacag aaaagagggg tatgggatat gagttaagtt ttgatcacat 180  
 tcaactacac tatcccaaac cgttactctt aagactttga acttcacttg tactctagga 240  
 tcatgttggt ctcaggagct aatccaacac aagccctcag gatgttttcc agcatagctc 300  
 gctgctttga caacgcattc accactgggtg taccgggtgg aaccagaggg gccttggtca 360  
 ggtaactaag gatggtcgca actgggtgga atgagtggaa ttttccctca ttttcagctt 420  
 taaactcgat tcgagtgctg agctcagcaa gaaggaccaa gtccaagata ataggagcag 480  
 ctaacagtga atcctcacat gtgttggtgca acac 514

<210> 29191  
 <211> 513  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400006c03d1

<400> 29191

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 ctgtgcacta accttgcacc cttagatcgc ttctttatta ttttccccct tacatttata 180  
 tggggcacca actacgaacc aacaatgctc aatgaatctc cagcagtcac cttttattat 240  
 tccatctttt aagaatagaa aaaccacaga aggctcctaa gtaatcactg tttgtttgcc 300  
 actgccacag tgcccttgg ttgctgcttc ttcttgataa gtctgtctgg actcccgga 360  
 acattgtgct ctaaattctc atttgtgagg aaactgtcaa cttgtgctgc agcttgctgt 420  
 ccctctgaaa ttgcccatac caccaaggac tgaccacgtc gacaatctcc agctgcanac 480  
 acccctttaa gactggttga gaagcgacca tac 513

<210> 29192

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400006c04d1

<400> 29192

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 tgggtgctatt ataaacaaac gctgctccat atatagaaaa ggtaatgcca tcaagagatg 180  
 tagtgaactc taaactatat ccatcatcca tgcaggtgac gtcacaaaga gattagaaga 240  
 atatgctaca cccgttcttg ttcttgatca aaagattagc tccaaaaact cgggtagcca 300  
 tttcttttac agtaaaacat gttcacagtc ttactgcata taatctttta tccaatagca 360  
 tgtttatgtg cctttcttca agtgccaact ccaattaact tgagaatggt attgtgagga 420  
 cttgccaat aaaatccttg aaggaaaatt gggaaaacat tgcaagcatc agggatataa 480  
 atcattaatg catgcatgcc ca 502

<210> 29193

<211> 485

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400006c06d1

<400> 29193

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 atgaagtaac accataggca taattaaaca ctcttcaagc tcgcacagaa tttattcaaa 180  
 ggcacactag aaatggaaga tatgatagag atacacaggc atgggtgatac tttggagctt 240  
 gaatattaat tatatatgaa tatttatcat gttcagccaa acagatgggtg gtgcttcttt 300  
 ccatgagctt cctcatcttc tttcttaact tcctttttct catgggtgttc atgcaagaca 360  
 aaaccaccag caccaacagt agctgctgcc gcaatctcct cttctacctt gtgcctgtga 420  
 gcatgctctg ggtctttctt ggccctcatgc ttctcatgca aggcataagc accggcagcc 480  
 gcagc 485

<210> 29194

<211> 504

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400006c07d1

<400> 29194

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 tcgcatacta gacttggttac tacttagaaa gctaactctaa tctggttacac accattatat 180  
 tattatatta tattggctca aaagtattaa gcacgattat ggggtggctaa ttggctaatt 240  
 ggatgtctcc gttatcaccg tccttaccct tggaccatga ggccaattta ccaaaggagc 300  
 cttccatttc ctcaagggtc ttgccctgtg tttcggggag catgggtatag aagaagatcc 360  
 atccacacat tgcgattccc ccaaagagga agaatgcccc accaatagtg atcttattag 420  
 agagggacag gaaagtcatt gagatgaccc cactagtgc cctattcacg acaactccca 480  
 tagccgcacc ctgcgcgcga agcc 504

<210> 29195

<211> 572

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400006c08d1

<400> 29195

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tccatttttt cacattactg taacagatag gcctaaaata cattcctaaa atccaatagc 120
agcagcaatt atacgaatta cttttttttt ttttcctgtg attggatgaa acttaagagc 180
agtggattat catcattgtc acatatgatg aagcaatatt caacaagtgc aagaactgta 240
tgaataggaa taagagttta tgtacaacgg gaaatgaaaa tagttgtcat ttgaacacat 300
tatgctgtgg cagctgcttg ttcttcaaca gcctgtgatg ctgggagaag ggtgcaaatg 360
aggttgcggt caccgtacac attatcaaca cgctctgtgg taggccagaa ctttgagta 420
cggagccaag gagctgggaa ggctgcatat tccctggagt atggttttgt ccatgcatta 480
gccatgagca gtgatgggtg atgaggggag cccttaatac attgatgtaa tgtaaccttt 540
ctttctcatc tcacaattct tgctaattga at 572
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<210> 29196  
<211> 585  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmst02400006c10d1

<400> 29196

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tatttctatg aaataataat ccaactcacc agaattctac ttacaggttg actgatataa 180
cacagggaat gcatgcacat gggccgcagc cgtagataga tgcataataa atgctacttc 240
cgctgaaac catttgaaca tgtgccagca tgcactaact tgaagaacct tgagctgctg 300
tgcactttca acaaattcca tgcatgcact gctagacatt tcgttctaag atttgatctg 360
aattcctcgt ttcaaaagag atttataagc tggagttctt gaccattcat caatttcgct 420
agcacgtaga acaggcagag gatgtgacag ttgccttgta tgtgcattcc ttatatacca 480
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cccaattggg ctggaagcag gtttttcata agagcgagct tgctccagga atgcatccac 540  
 atttagttga tcagccatag atggacatnc cccagctaatt ttcatt 585

<210> 29197  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006d01d1

<400> 29197

ccagtaatat tatttaatat tataagcaga gattcataat tcagattagc cgaactttat 60  
 acagaagcga ccaattacca aacattaaaa aaaaaaaaaa ggaagcaacc atgagcttaa 120  
 cacacccatc acaagtccaa aacacttgaa cttgctgaaa ggcaagacat gaccacttta 180  
 ttctaaggat gtttgtttaa cacaaaacac cagagggcac gaaaaccatt acagacataa 240  
 tacataagtt tttagctaca cattaatagg taatcattat tcctaattaa gggctatatt 300  
 tgcttgaagc ttgctttccc aacacctaac ttgcaagtgc aggggttgca ggagcagttt 360  
 ggtccacatt tgcagccatc gttctaaggg ggcacacca tttcagcacc ctaaaattga 420  
 gccttaacag gggccatttc catgaccaag gtcttg 456

<210> 29198  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006d02d1

<400> 29198

ggtctagata tattgatctt atttatagaa aattttccct catcatttga ttttcttaaa 60  
 atatcagtca ataaagtgtc tgagaaaatc atgcacaaag cttacacaag aaagcaagaa 120  
 attaatacaca ttaaccaagt ttggcaagga catcggtcag agaagataca gtagcagcat 180  
 agtacttctc tgcttccggg ctgctcttaa tttttgctgc atgatccaga ttgctgatat 240  
 cctggaagag cttgccagtg agttccttga gtgatttctt ctcatcctta ggctttgcag 300  
 caatgacagt gttgagatca aagcgcagat actcgccct gagacgcaga tcattctgaa 360  
 catatggcca agccttcttt tcaatcaact tottaacgcc aacaatttcc ttggctgatt 420

cctttgccct ttgtgcagca tcagttggag acaatggttg aaggaagaa

469

<210> 29199

<211> 356

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400006d04d1

<400> 29199

ccaaaaaaaaa ggggccctcc aaaaaaaatt ttccccgccg ggggggggaaa agggggccct 60

ttttttttct tttaaccata aggacaaccc cggggggaac ctataagggg ggcaaaaaaaaa 120

ttggaagttg aacccccaaaa cggggggggcc cccccccaaa aagggccccc aaccgggggt 180

ttttcccccg ggggggggaaa aaaaaccccc ccccaaaatt cccccccata aaaggccccc 240

tgggggggggt ccggggcccaa atttgccggg ggggggtcct aaaaaccccc cccttttaac 300

cccggccccc ggggggggtcc ctttaaacgc taaaagggcc aaaacccttg gggggg 356

<210> 29200

<211> 494

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400006d05d1

<400> 29200

aagcaaaagc aagcagatat tccttttaac ttgacaata aaacaatcac atattctttc 60

gcttgatgac aaaacaagaa cagagcaaag gttcacataa ctcacaaaca ccacttttcc 120

ttttcaatac actggtcaag aagaaaacaa caaaaacaga actccacaac agttgcgtgc 180

tagtcctcaa aacatattag aaactttgga gaaatggatg ttcttcaact cgacattgta 240

gctgctgctg caagaagagc aactccaaag gacaccaagg ttgtcccttg agtactaacc 300

aaactcatgg caccagaact gtccttggct gcctgagcct ggatcatcat ttctgctgaa 360

gcgttctcct tatcagcttt aggagcttta gccacagcgg gtgctggagc tataggctta 420

ggcttagaga agtccaaagg aatgagcacc ttgtccacat gatatatggc aagtgtctta 480

tcagtgtaca caat 494

<210> 29201



<211> 521  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400006d08d1

<400> 29201

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 gccagaatt ggacggtaac aatgggtttg atctttaaaa tagcacatgg acacttcgaa 120  
 ggcatgctat gcctgctttt gtcccagaag ttgaagaatt gaaatcttgt gtgatgagac 180  
 aatcgatcag tacttgacta taaccctaaa attttagcta atttcaattc ctcccagtgt 240  
 cagcttcaag cattacgcat ccaaactaga cactgttgat atttgggggtt cggatttctt 300  
 gtttttctct tgcataatta attctacaaa gtccctaaaa gcgtaatcag aatcatgggg 360  
 tcctggggat gcctctgggt ggtattgaag agacattatt ctttgagcag ggaatgcaag 420  
 gccagcacag cttccatcat taagattcct atgagtaacc tccactcctt ctggcagtgt 480  
 ggcagggtca accgcatang tgtggttctg agcactaatt t 521

<210> 29202  
 <211> 518  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006d11d1

<400> 29202

gatgaaaagg aaagataata tatataattt gttgaataac agaacagaga aacaagatgt 60  
 gaaatgaaaa tgaaaacata tggataaaag aaggggagag atctgcaacc tttgtggcag 120  
 accccaccct gcattattac acctttcttt ctctttcctt acagatctac attacattac 180  
 attacatata cttccttgct gcttttgctt tctgtttggt tccctgacat ttatatatgc 240  
 atatatatcc ctcatctata tataccgat atttatatta tgtataattg ctacaccaac 300  
 atgcatttgg atccatggac acggaccacc acaataatta agaaaaata atagtaataa 360  
 ttgaagaaaa aacaagaaaa atgatccaag gtaggtattt gaattatctg tttctctttg 420  
 tttcttgtaa aaacataaac aagggcatgt ggtgtgagga taattaaggc ttgggtacgt 480  
 acgtaggtga ttattcattg tcaagtgat attccttt 518

<210> 29203  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006e01d1

<400> 29203

gcacaaaact ggtaaaattc cagatcaata aggattgagg cgaagccgca aagatacaac 60  
 attcattagg gaaaacagga gtgggggaaaa ataagggggg aggggttgag gaagaaccta 120  
 ttgctcacag tgcattgctt gacccctaac tattccacac acagttattg ctacaaccca 180  
 ctatcgagaa aattcctctt tgggtgtatta ttatataaag cccaaccaat tgactcgtaa 240  
 gattctactt tcttatacca ttcacttggc aagttcggtt ccgatgagtt ttgctgcggc 300  
 aaccatgttt gtgagggctg gcttcacctc aatgtactta cgggtcttga gccacagtc 360  
 agggctcacc cacaagatgt tcttctcgag cactgcccgc attcttgctg attctgtcac 420  
 cactttcttc agctggcggg atacttgggg agtggatgtt 460

<210> 29204  
 <211> 536  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006e02d1

<400> 29204

aagcacaaaa tacttcgata actttatatt attttacatg catgcatagc atagatagcc 60  
 tgctctcaaa ttagtcagca ggaacaaaga tagagagatc caacgatctt taaatttcac 120  
 atttgccata aatatataac agaaaagagg gtatgggata tgagttaagt tttgatctca 180  
 ttcaactaca gtatcccaaa ccattactct taagactttg aacttcactt gtactccagg 240  
 atcatgttgt tctcaggaa taatccaaca caagccctta ggatgttttc cagcatagct 300  
 cgctgctttg acagtgcatt aaccactggc gtactcgggtg gaaccagagg ggccttggtc 360  
 aggtaactga ggatggtcgc aactgggtgg aatgagtga actttccctc attttcagct 420  
 ctaaactcga ttcgagtgt tagctcagca cgaaggacca agtccaagat aataggagca 480  
 gctaacagtg aatcctcaca agtgtgtgca acacaattgt gttctttccg ccatga 536

<210> 29205  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006e04d1

<400> 29205

ggggaaaaaa taaggcccca aaaatttatt aaatcattga accccaagg gaaaaatgta 60  
 aaaaaggccc aaaagggggc ccaaaggga catttaacct acaaaaaaac taggggtttc 120  
 ccctttaaca aagggttttt tagaaaacaa atttttaag cctgaaaaat ggggacccca 180  
 cattggggcc cccttttaaa aaacatgttt ggccctttga aagcccagat ttgggggggg 240  
 gtaattttaa aaatggggag cctggaaaat ttaattttgg taaaccccaa tttttctggc 300  
 caaatggaat ccggttttta aaaaggtggg accacaaaat ttttcacatt caaaaaagcc 360  
 cgagcctttt aaaagcctgc caaaagggtt tgg 393

<210> 29206  
 <211> 547  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400006e05d1

<400> 29206

aaaagaaaat aaacttgat tttatatatc ttaagaaagt aaagggggtg ttcagacacg 60  
 gaagtctttt ccagtgaag tttgaccaa ttgccaattt gatggaacaa tgttccaaga 120  
 ggtggaagag cgacggctgc tggcggtgac tctgaaggac aaagcctgac ccacaaaaac 180  
 ggcgtttgac tgccagttct gtccccagtt tctgctcatt ggcatccacc ccgttcgtga 240  
 tcccttaacg taggcgtgca cgatatcccc tgcacccgct acgttgctga tcaaaaccag 300  
 gttaaagtaa cggaaaccgt ttattgtgaa cctgatccca ccatgcttcc tacatgccac 360  
 cctgcggaag gcgacaggca cgatgccggc gcggtattcg gcgattttaa ggaacatggg 420  
 catggcgagg tcgaagtga ggcgaggagg gttgcaccag ccgccattgt cgtttggaag 480  
 agcgtagtta gggggacaga agttggtggc ngtgatgaag atggaggggc tgcggagtga 540

caccact

547

<210> 29207  
 <211> 537  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006e07d1

<400> 29207

caaaatatct tcataatcta tcagagcaaa aaaatattca ggcaactaaat tagaaatttg 60  
 ttcaactcat ccggatctaa taattacttc aagtgccctt cccttctgta tgattatgat 120  
 tataccacca aacgaaagat ccatatcatg cttacacccc aggaaggata tactgcaaat 180  
 acaccattaa ctcaatttca tcgacgcaaa tttttctgcc agatctatag cctcgtttac 240  
 atgtgatgcc tctgtaccct gacccgttgc aagaccacct tttcctttac cacatctccc 300  
 ttttagaggc cccaaagcat tactcagcca atctgccaca tccagattac ctttacctcc 360  
 tttctctggc accccggcac aactacagc cttgttcgta gattcgtccg tgctaaaaaac 420  
 catcacagat tagcccttct ggtccatgac ttatgtcaca gccttacgaa ctgcagctac 480  
 atccagacca acatcaacag gagatataca agatgttatc catttgaaac agcaagt 537

<210> 29208  
 <211> 536  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006e12d1

<400> 29208

aatcaaacac gctaaaaata ctactaaaga ctaaataaat tatcccatat catgtacaag 60  
 caatatttca aggattccct tttcaacatg accaaacaaa gcatagaaat caacagcata 120  
 aactacatc ttacatgcta aattacatca ttgatgggaa agacaagtat taccaataaa 180  
 accaaacacc tttcaatgca tcatcatgca ggaatgtgaa agtgacaaac tcctctttcc 240  
 atatcatctc taaaatagat aatgaaaagc tgcaaccatg tatggaggtg cctttccctt 300  
 tcaatgatta aacttgccca gcttagggta atattgacac tatcaccaag agaaaaaaaa 360  
 acctccaaat acttcaagat gatattgggt cataagggtg tgataaccat ggggtgcttca 420

gtgcttcgga tgcagaaggt cgcttcttcg gggttaacctc gagcaaatga gcaacaaagt 480  
cgatgaagcc ttggtccccc atcggtaatc tataccttaa tgatgtcttt ttagga 536

<210> 29209  
<211> 463  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400006f06d1  
  
<400> 29209

aaaataaaaa aattcttttt aatttatattt aaaaaaattg gatgttacac cgtcatactt 60  
acaatatgga ttgaagagaa aaataatttc agctgaagag ttacaaaagg aaaatcaaaa 120  
caaaggctgc acaaagttgc catatcattg gtgggttgtc acttccttgt agtgggtggat 180  
gggtatatgc ttttgaagaa gtccatcat tttcatcttc ctctgtatgc aaataccatt 240  
ccttccacta aaaaacaatg gccacttttt ttcattgatca aaattacaat gccctaattg 300  
gacaactctt tatgaagtaa tctgaaaagt caatgtactt tgggtccaaa tggcttttaga 360  
tggggaaaag ctatatcttag ccatggcttt gccctgccat tgaaatggat gacaccagca 420  
gtttcagcat cagcaaaaact tgttttttcc tgatatccca atc 463

<210> 29210  
<211> 530  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400006f07d1  
  
<400> 29210

cttatcagaa taattcatta tttattaaaa cggaagtaat caaatcacct gttgtaataa 60  
gaaattgaat aattagaata caaataatgg tttcctcatt gctgtttttt ttcttcttca 120  
aatttcctaaa tcaataaaaa ttcttctggc agtatattat ataggtag ctctgttaa 180  
ggtgtgatgg agttggaaat agtctaaaat gagtttactg cttcatggc ttcgaatctg 240  
ggctccttag gctggaactt gagtgtcgca tagagcttca tgtaatcctc aaatacaaat 300  
tttgatata cttgttctgt atcctctgcc ttttgctcca acaatgctgg tgcagggtag 360  
ataagagcgt cactggcagg gttgtagaat gaggctacgg acattctggt cccattcgtt 420

tgggcaatca cacgatgctc cacactcttg tatctcccat tggtaatgac ctcaatttgg 480  
tcaccaaggt taacaacaat ggaatggcgc attggaggca catccaccca 530

<210> 29211  
<211> 448  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400006f08d1  
  
<400> 29211

gactaataaa ggacaaatth ctctaaaaaa aaataaaaat aaaggacaaa taaggggtcaa 60  
atgaaatcgt taacttattt aaaaagatct ttatacgcac ctttccttct tacctctacc 120  
tttttctcta ctgaagcatt aagcaacaaa gcaatgacag ctaaaccgag caaattggga 180  
gaggttctat tttttcatgc cttgatatta tctacatata cacattagca gttgaaaacc 240  
ctgaactgct ctataattaa tctcagcttg gtattatata tctttgatcg gcttttagtat 300  
ttccacacac ctgttcattt gcctgggtgaa tattggactt gcacagagga caagttgcat 360  
tcatttttaa ccatatcact atgcactcat agtgaaaatg atgggtgacac ggcttaacgt 420  
ttacattaac tccatgctta atggatga 448

<210> 29212  
<211> 342  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400006f09d1  
  
<400> 29212

gggttccaag gaacaaaaca aaatgcctta ataatatctc agggatatgt tttggacatt 60  
aagattggag aaaaacctga agatgaatga tttaaagagt tggagctttt ttaaaagacc 120  
cggcaatgac agtgggcaag ttgttgccaa aaggggcact gaaatgtttt gctaggtttt 180  
taacaggacc ttttccgggg acatatgctt ggaagttgaa accaagcttg ggaaacattg 240  
caaggctgcc atttttaatt tcttcacct ttagcagtgc aacttggttt ggatcatttg 300  
caagcccaa tgggttaaat ggaccacctg gatgaaattt gt 342

<210> 29213

<211> 499  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006f10d1

<400> 29213

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 ctgagctttt agactagtat acatgcttat ggacaattga catgccgaaa ggaagcaaaa 120  
 aagaaaaagg aaaaaagaaa acagaaaaac caaaccaaaa caagtctaaa aaaaaaaga 180  
 gtaacataac atgttgatg ttccacattt ttatttatgt ttgatatcat ggcaagggtga 240  
 gtccagagga gaagcttata ccagccatgt tccaaccctt cattttgcaa tcagggagag 300  
 gcatccacgt ccaccggttc cactttgtat caaaagagag ccacgtcatg tcccaaacac 360  
 cttcacaatt agacaccaac gcagccctaa cgacaccgtt tttctcttct aagcaacca 420  
 tcattgctgc ataaggett ccaatcacac caggaaccgc agacacaaac tcccactttc 480  
 ttccgtctaa actcaaacc 499

<210> 29214  
 <211> 580  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400006g01d1

<400> 29214

cttatcctca agctcaccat cagaccctga ctgctttca tcttcataat ctgtgtctc 60  
 atacactcta tcagatctag accttttctt accgtctttg cctgaccttg gggcagcatt 120  
 ttccaaatta gagacactag atagctttcg atgtttcttg ttttaattctt cttcatctct 180  
 atagactgca gaaacttttg acgttttcag cttttccaag taccgaatct catcatctc 240  
 gtcacgtca tcaccaaatt ccccatcaag tacacgtctc tttggtactc gcttgctctt 300  
 acgaactggg tcagacttgt ctcccagctt actagttgtg ttctttccag aaatcttccc 360  
 catcaatgat tctccttcc caagacaaa accacccctc gagaaatcct tccacggaac 420  
 accttgtaga cgactcctct tatccgaagg agagttatta tcgtctgaat tactctgttg 480  
 cttttggcgt ggtctggaag catctgatga acgagacttc attgttggtc cacttcccga 540

agcaccattg gttgccgaat nggcttgaat agacgtgtca

580

<210> 29215  
 <211> 553  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400006g02d1

<400> 29215

agagcataaa tatactggaa tattataaga tacttggaat gttctcttac ttcttagaca 60  
 tgaatgacaa agtctgaaag taacacatta atgtagatta gtgagacgtg atgaaaagta 120  
 atatgaatcg accatgaaac atggagctac ctaccacctt ggcaaacatg atcaaattggt 180  
 ctccgaatct tgtttctgca cctccccctt acaaagggtgc atatacacat tatcacgtag 240  
 ttcacgggat gaaaaatatg gagccaaggg ttggctgtta ttgaactcaa taacctctgt 300  
 gtcagaatca acgcatccct catcataact attacttaca attcaaagtg ctcttaagtt 360  
 catgaaggaa gataattctt atgactagtt gtagtgaaca cagtcaacgg aaatagtctt 420  
 gaatataaaa caaacaagta tatagcatag gcaaattctac aagagagatc tttgataaac 480  
 aaacaagcat agcataaatc cacatggcag atctttgatt cagaattttt gagattaaca 540  
 naatcattca aat 553

<210> 29216  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006g03d1

<400> 29216

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 tgatccaagt gacccttatt ttagaataca gttacacgca caagtgcaca acacaagacc 120  
 ataggtaaaa acataaatgg catgaacaat gagtcaaagc aatggcagaa caataatatt 180  
 aacgccacca ccacttgtaa cagtgcactc agttcctctg cagtagcaga gaaattagac 240  
 atagcccctg ctcttcaaac tctccactgc atccttgatg atttgctcaa caggagtga 300



ttctagacct aaatcaatca gcttctttga tgcctccttt ccacttgctc tcaacaaccc 360  
 tgggttgggta tcctttggca acttagccac atcgtattca ggggtataact cagcaacctt 420  
 gtccacaaga tcactaaagt gacgaataga ttccacacac aagtgccttc ctgctgcttt 480  
 cttgtttctca agtgccaaaa tatgtgccaa tgctatgtct ttgaagtgag ccgttcccat 540

<210> 29217  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006g07d1

<400> 29217

actctattga tacaaattct ctattatagt ccatcatatg cacgatattt cattcgcctc 60  
 attggctaca ttctgggtcc gcatattggt gtccactaat tgggtgaagta acagaaacta 120  
 aaggtgacta agattttcca ttggtactaa acgaagctta tacctttatt tattacatgg 180  
 tgaattagta ccctaaaga gatgtttgca cttgccagtt gagaatatgc tatcaagggt 240  
 ttaaaaaacg atcgcgatcg cagtttatcg tgttccttga tattacagaa aattgcagac 300  
 aaatacaact aatgcagtca ccacaattgt gactgcattg cagtagcaga cactccaaaa 360  
 acctttatgt tgcggctgaa aacacagttg cagaccgttt tttaaaacct tgaatgctat 420  
 tatactttag agtctagggt aagccaacag agcatagctc aattgatcca taatcaagca 480  
 actcctgtat catctgctct atgtgatcat cttcaagaac tggctgaaac tgttgatggg 540  
 aaac 544

<210> 29218  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006g09d1

<400> 29218

catctataat tcatagttca tagtataata taagcccacc taagcagttg aggcagagca 60  
 actaaactaa ataaaatatg agacatgtag tgtagcattg actataggta atagccatcc 120  
 atcaactttg atatcaatca tcctatgaag agacagagaa attaaacaag gaggcaacca 180

tatgcctaataat gaggaattaa aagtatagaa tttcaagcca ggaataataa aatgagaaag 240  
 aaacagaaag cagctgtaac atttttaaaga ccaacttaga actaccctta ttgatacctaa 300  
 ccatagcttt cacatgacct cactgataga ttcataatac tagtgcctta gaattttgct 360  
 tcagttgttg agaggtgcag gatatactgtt gatgcaatca agccaagggt tcctagaagg 420  
 cttggtaact cggcgcatgg cgcgccaac cagctgttg cacttgaagc ctgagccaaa 480  
 tgcgagttgc caaacgcgt ctcctcttct cacactc 517

<210> 29219  
 <211> 533  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006g11d1

<400> 29219  
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 tcaatcaaat cccccagaga ctggaggaaa cggattggga atgaaatagg ccatttccag 120  
 acaccacaca aataaaaaca taccataaat atagcacaaa tggagtatct ctttccccta 180  
 tcgggaagta ttgggcaatc caacaggaaa caaagaggaa acaatagaat ccctatctct 240  
 agctaataca cagataagta atcggccctc atgtttcatt cccaaacgca tgcacgaat 300  
 cctatggaag attccatcat ccatcggaact cactctgcat cctcaccttc accaagcttg 360  
 gcagtgccat tcactttctg ggcattcttct ccatcttctg ggatgtcaga agtccacaaa 420  
 gttaggttgt ccttgagaag ttgcatgatt aaggtgctat ctttgtatga ctcctcattc 480  
 aaggtgtcaa gctcagaaat agctttatca aaagcttgct tcgcaagatg aca 533

<210> 29220  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006h01d1

<400> 29220  
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 tctaataatt gccccacct tattacctca aatatataat acaagtaaaa aaaaaaaaaa 120

aactgttggg aatgggatca aaatttcac cataataaaa actttcaaca taaccagga 180  
 aaaaaatgtc agcttaaact cactttaaaa aaaaataaaa caagtttgat atgaatcaag 240  
 tgtgcatgga atcagcacta acccaagtcc aatgatgctt tttaacagaa acagctttat 300  
 ccgcaacaat tttgtcttga aaaacccctc cataactcac gacctcgtag ggggaaaaat 360  
 cccctgggg caaacccctc acgggggcac tgagcgtgtg caaacgtat caaccgggca 420  
 aaccgggta cgaaccgaa tcccggttct aacccttatt ttatacgaat tggga 475

<210> 29221  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006h02d1

<400> 29221

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 ttatagaacc catatatact caccagcata aatttaatat aaacaaagat aagcagcaaa 120  
 agatctaacc gcaataatct tagataataa ttgaagtcc caataaaata tcaaacaaaa 180  
 cttccgaaac atgcattcac cttgacacca ccacgggtta ctaggccaaa aacaaggaca 240  
 gatgcctaac gtccttagga tactcactct attacataag ccaaaaataa tacatgaaag 300  
 acctgggtta ccaactgcaa aaatatcact gaccaccatg ctttgccttg ttatgttggt 360  
 gcagaccact ttcagagttg aaagacttgc tgcagctttt gcaagagagt ccaccagaca 420  
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<210> 29222  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006h04d1

<400> 29222

aaaaaaataa gggcctacat gaactgggtc ccaatatatt tatgggaatg gggaaattaa 60  
 ccaggggcac atgtttgcaa aaaatattcc caaaaacccc ctttaatttat tgaaaaaagc 120  
 ccattggttg ggacaagcaa atgccctaaa cccattcca tactttgggg aacaccaaac 180

cccttaaata caagggccaa cttttctttt aactgggggc attttaaaag cccttgaaaa 240  
 ttctgccaat tgaaatccgg aaggaagaa cttccccggg ggggtataac ctttgggtcca 300  
 gacccaagg actattggag ggccttaca aaccctcca aaattttt 348

<210> 29223  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006h08d1

<400> 29223

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 ttgatttctc tgagggtataa accaaggtac tacatacata tatattagaa aatttttagtc 120  
 aactaaacag gataaaatta cataaatacc tgatcagcca ctactccatt tgcattgtctt 180  
 gcaagaatag atcgagactt cccacttctc tcagtagctg gtcccttatac agattccagt 240  
 gcatccttca ccctagaaac tggtaaacca actctagaag acctgggttg ttgcactgca 300  
 gcttctattg ccttacttcc accaataaaa tttgggtggg aagtgttgat gtagtccatc 360  
 tccatttcta tgacgtgtgt tatcatagtc tccgagggtt ctaggccttc tcgtaaaaag 420  
 ttcccaataa cttcatccat gcgctttctc aagaaaggga accgctgcaa ttcagtgacc 480  
 atacagtgat ggctgatttt cattaactcg tcatatataa acctagcgca ctgaagactt 540  
 ggatccatta gtcga 555

<210> 29224  
 <211> 553  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006h09d1

<400> 29224

aatgtgaaaa agcatttgat tcaagcacia gatcgaggaa aaagtaactt aaattacagt 60  
 aagttatccg agcatcaatc ggcataacaa tctctttcca cataaattga ttcagggtcc 120  
 aatgaacaa gttggaataa ccagggtctt tatacatata cacaacacac agaataattc 180  
 ccaaattcta catgaagact cctcaacctt ttttcgcata tcccatcat tatgccattg 240

tggccaatgc tctgaatcag ctatctgttg ttgcctcact tgcattttcg ttagaggtct 300  
 gtcgcacaaa ttgtccacga aatcgaggtc gttgttcagc taatctcttt ctgctctgat 360  
 atcgaacctt tttatgaaag cacctctccc ttctctcttt tctcttttgg cgaaatttag 420  
 ttaaggccac ttccctttga gaagtcttgt tttgatctac tctggtggca cttccacttc 480  
 cactagcatc accactgcca ctattcccag tgagtccatt gttgctttcc gtggtggccc 540  
 tccagcatta act 553

<210> 29225  
 <211> 191  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006h10d1

<400> 29225

acattatcat atccttacat ccaaacggag aacacccaaa tgacacagaa aaggaccag 60  
 gcaccaaacc aaccaagacc gcacaaccag ggtcaatacc cacgaacacc aacaaacagg 120  
 acaccacaa aagacacacg aacaccccaa aaccggggac tcgataaacc cctcacaatg 180  
 gacatggtgg c 191

<210> 29226  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400006h11d1

<400> 29226

atatgactct ggtgttattt ttgattttgc aaattaaatt acacaatcac agccgtacat 60  
 cacacatgag ttgggcctct tccaacttaa aagcagagga taacattggc ccatgacgcg 120  
 acacatgcac cacctaataa tcataatttt acatctttac atacaaaata caaagacttt 180  
 aaattttaaa aagaagaaaa gagataaaca gatcatctta atgaaatgaa accaaaaccc 240  
 acaaacattg gcttgatttt tgttggtgtt gttgttccca acttgattaa gcatgaaccg 300  
 tttgattgaa tcaattggac ttgaaggga tggccctgat tacgacctgg tggtagagtg 360  
 ctgcaagagc tgcaccgatg aatggtccca ccagaagat ccagtgttca tcccaaccaa 420

ggtccttggtt gaagatgata gcagaccaa gactacgagc agggttgata cc

472

<210> 29227  
<211> 176  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400006h12d1

<400> 29227

aaaaaaaaa aaaaagaaaa aagaaataaa aaaaaaaaaa ataaaaaaaa aaataaaaga 60

aaacaaataa aaaaattgag taatatgaaa aataaaaaaaaa aaaaaaaaaa aaagataaaa 120

aaaaaaaaatg aaaaaaaaaa taaaaaaaaag aaaaaaacac aaaatgagct gaaaaa 176

<210> 29228  
<211> 448  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007a02d1

<400> 29228

gacagaaaaa agttcattta gcacttaaga taggaccaag cctgtgagag tacaagggtta 60

agattccctg gtacctataa cagatgaaca agtacagaag cgagaatccc actggacagg 120

gcattatcgg attcactact gatgtcaggt tccattctag aatctaagtc acctgaaagt 180

ctttcccttg atccaaagtt cagaagaaag ccctgcttcc ataaaacaca cgggagttag 240

tgctgctcgg tgtctgtatc ttctgctcat agctagagtt tcttgagcta gttgggtccac 300

tttcaaagtc cataggaagc ttcattttcg ccaatgactc ggcggaattgc tgcattgcttt 360

gcatgtacat atcgacaaaa tcttgctgca gcacatttgg ctgcggttg atgttaacag 420

tgacaacagg cttaaggaat gactgatt 448

<210> 29229  
<211> 401  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007a05d1

<400> 29229

gcatcaggaa atcaatgata cattatattac agggtaaact aaataaccgg aaggaaaatt 60  
 ttccccatc cacaaccaag tgcatttcat ttaatgaggt aaattcacat gactagaaca 120  
 tcatgccccaa gttaagattg aatgagaaga acaggaacat gcatgcaagg ctagggggtt 180  
 gccttaccag caacctgttg attactagaa tcatattcat tttcacttag ctcttcatca 240  
 ctggagttct tttctgtggc agctcctatg tcttcaggtt tagcatactt ctcacagaac 300  
 tctttaaccc tttggtcata aatggctcag atcacgcata attaaagctg cagtttctac 360  
 gctcaagggg tcttatggat tgggataccg aaaaagtgtg g 401

<210> 29230  
 <211> 575  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007a07d1

<400> 29230

gaaataaata ttatctatgt aaactgataa aagaatgcaa ggtagcatcc tcttagaaaag 60  
 aaagtcaaaa tgaagaaatt cactaaatta cagccaaaca ccatgcaaatt ctcaactcca 120  
 gtctccagta acagaaagca cacgcataga ataaaaggct cacaaagcct tatgggtgatt 180  
 ttctagagac caattccatg ttctattaca acatcctaatt ggtaaactat caagagagag 240  
 actagccttc tcgtatgcac tccacaaatt ccttggccaa tacctgcttc actatgcata 300  
 gtcacctcca gcagctcggg cagaatccac cttttgttcc tctccatctt cagggatgtc 360  
 agaagtccac aggggtgagat tgtccctcag aagctgcata attaggggtgc tgtctttgta 420  
 agactcctcg ctcagagtat ccaactcaga gattgcttca tcaaagcct gcttagcaag 480  
 gtgacaggcc ctttcaggag agttcaaaat ttcataataa aagacagaga agttcaaagc 540  
 caggcccaaa cggatgggat gtgtggatgc taact 575

<210> 29231  
 <211> 516  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007a09d1

<400> 29231

gagtgaagca aaattcttga ccaaattatg ttcaaatttt ctaacaaaca gattgaaagt 60  
tctgtactgg acaaaactac aattgaacat ctaaactttt gcagcttata tttttctgtc 120  
cttatttatg cttcctgctt gcatttttat ccaactaaat acacaagtat tcccttcac 180  
acaacccttc agagagagtt gggaagcagc tctcagatct tgtaagcaca gaaccatgaa 240  
tttttgtgag agtcttggtt ggactatttg gtgtggacct tactctaaga gaatccaaag 300  
tccttctaag aatctgtctc atggctgata tcaagtgcac tgtcggattt ggaggaggcc 360  
ctgatgcctt gaactttgtg cagaagttca tgtgcttagc cattgcttgt tctgtgcaaa 420  
caagtctctc agacctcaca atttcatgct taacagcctc agcacacaac ccacaaaccc 480  
atttcccaaa gtacctctct ctgatactat ctatat 516

<210> 29232  
<211> 505  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400007a10d1  
<400> 29232

aagaaatcaa ttatgaactt gaacctttat ttgttcaccg gggttggagt tcagaactgc 60  
acaaaggaga cttgatctca aaaaatgaga aaaggaaaac aaaaatcaca tttaaaggat 120  
gctcttctct tcaactgtgt gtgctctttt caataatagc tattaacttc agcgatcaat 180  
gccttcaatt ttgtcttcca cttctgaata caactgcctg agcttctcaa tattatcttc 240  
tgaagtttcc caataaccac gtccattggc ttccaagaat gtctgcacca gtttcctgaa 300  
ggagtttgga ttagtgctca tgagcttggt cagcatttgc tcatcttgaa tgaaagtgt 360  
gttggttctt tcatacacc agttatcaac ttggcctgaa gttgcactcc accccactgt 420  
attggtgagt ctcttctcga tctcgcgtac accctcatat ccagtagaca acatgccttc 480  
ataccacttt ggattcaaca gcttg 505

<210> 29233  
<211> 553  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400007a12d1



<400> 29233

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 caaggcgtaa gcagcagcag atgcagcacc taactcacca aggtgctcaa gatgcttggtg 180  
 gtgcttctct tccttcttat agtcaacctc atcatcatc ccaccaccac ttgttttgct 240  
 gtaccacca tcaagtggtag tgtcagggtg cacaccacca ccaccagcgg cgccatagcc 300  
 accacttgggt ttgccgtagc caccatcagt gacgtcagag tatccaccac caccagcgcc 360  
 atagccacca gaagtctcat caatgccacc agaataacct gttttcttgt acccaccttc 420  
 atagccacca ccagaagctg gctcatcact agaataagat gtcttgctga accaccttca 480  
 tagccaccgc cagaagactc atacgatggc ttgttgaaac cagagtcata gtcatacagaa 540  
 agcttggaaat atg 553

<210> 29234

<211> 567

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007b01d1

<400> 29234

atactaacaa gctgtgatta gccagaacta tgttgaaaac actataatac acgttgatat 60  
 gaaggcacag aagctgaaat agccgaatga agtgccaaac ccttctagga gttgggaaca 120  
 atggtgccaa catatccaaa tgccatgatg aggaaggcaa aagattggat aaagaggaag 180  
 atgaagaaat ggtttttccc gaacataaca tcatagcagc cacaaaagaa gaggtagaat 240  
 gcgacaccaa gttccaacaa gtgaatcctg tctccaatcc tgaatcgagg ctttttaggt 300  
 gctttacctc ctgcttttagc cttgagagca tcaccaagtt tttcagtgac aaccattcg 360  
 ttcactcgac tggcctcaag tagaccaata attgttgctt ttgttcgatg cagagacatg 420  
 acatttcaa agagaatcca gaagaccatc aaatggagt accttggagt tccaactgca 480  
 tttagaatag tgatgatgga agggatatag acagctcccc actttgggac cacaacctca 540  
 ggcaccaaag ctgttgaggg taataca 567

<210> 29235

<211> 499  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007b02d1

<400> 29235

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attcaacaaa catttaatta ataacaagga caagtttaca tttttttttc caccttacat   60
atgtacaatt gcaagcaatc gcacggcttg agagtcatat attcaccctt ccattcttct  120
tcatgctaca aactatatta tatttaattc ccacattttt gttttccttt tttttctatt  180
gccactgtta cgtacacttt gcaataaaaag gaacaacaat aattatgaaa gcctagagcc  240
aattaagatt gattttttct taactagccc aaagcatatg tttaatctta atcacttgca  300
gccaccagca ccaaacccaa ttcttccacc accaacatca tacacaacct ctattgtttt  360
ctgctgcacg ttcccatata tagtaacatc actatcgtca ccatttgagc caaaagccaa  420
gcaaacttgc ttggcactgg ccacgtagag tatcccttgc ggcggaagct gcaccgtgac  480
gccgtcggcg aaggaaaaa                                     499
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<210> 29236  
 <211> 550  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007b03d1

<400> 29236

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gcagttcaaa cgcattacta gatagtatac acatacaaac acagaacaca acatcaaagt  120
gacaaccatc gattaataat aaatatgtag ggcaaataaa aaacgaacaa agatatctag  180
ctcttgctgc tttttgaagg tgacttttac agtactccta gaggggcaag aggttgctgc  240
gatctgatcc tgctctttct caaacgctca gcgatgatga aagcaagctc aagagattgt  300
gaagcattga gccttgggtc acagtgcgtg tggtaacgtg agctcaagtt atcaaatgtg  360
accgttcttg acccaccaat gactcggcc acattctgac ccggcatctc tagatgaacc  420
cgtactgggt ggcttacttc ttgctcgtgt acgtcgaata atgctatcac ttgggccctg  480
atggaatcga acgggctagt attaaaaaca caggagagccc ttatggtgtt gtcatgcata  540
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ggagcactga

550

<210> 29237  
<211> 308  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007b09d1

<400> 29237

aaattctact ttgattgaat caaaactgta ataaagttcc taagactggg gctatacaga 60  
aaatttgaga aatgatgtac ttcaacttgg caaacaaaat tctgagacaa gatatgctac 120  
aacaagggtga aacagctaaa aatgaggaga gaaaaaatgt tacaatgagg tcatagtgtg 180  
atgagaagat attagaagaa aaaaaagaaa gaaagaactg ggattgccat gaaatgcagt 240  
aagcatgaca tctcaaaatt gagaacagggt tatgactgtg gttgttggtg ctgctgggtca 300  
tctgtatg 308

<210> 29238  
<211> 364  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007b10d1

<400> 29238

gcagaaaagg gttcattaaa tgtcacaaat tttctatttg actatgtcgg caaagaccct 60  
gttttaggag gcacattgga tgacaagacc atagacgttt aacagctggg ctacaaacat 120  
ataaggcgtg agaaatcttt ataactgggg aattctacac attgggtcacg tcagaaatca 180  
tctccatgaa tatggaagct aaggaaacct cccttacact tgaaaccatg gctatgactg 240  
cgactttata acgtgcagcg ctattcgata tattgccaca gaacctgaat tttcagtggg 300  
accgacacca tgggttcttta tgcaattcaa gaggtactta aaggcctcaa ttctacatgg 360  
aatg 364

<210> 29239  
<211> 558  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007c02d1

<400> 29239

gagcaaaaac ttatatcatt gttcaagtag aaacggggaa aagtacatta aaaaaaaaag 60  
 agaaaaataa aatcgcaata aaaacataat gacacgctgt tatctaaact tcaaaagggt 120  
 ctttgacaaa atcaagaaca acccatgaga atcttctgct taatcgactt cctcaatttt 180  
 ggggccagca ccgcttccac tgccagctgc aggaccatcc tcatccatgg ctccacccgc 240  
 atcaccacca gcacctggt acatctttgc tatgatggga ttacaaatgc tctccaactc 300  
 cttcatctta tctcaaatt cgtcagcctc agcaagttgg ttccatcta gccattggat 360  
 agcctgctca atcgcatctt caattttctt cttatcatca gaagacagtt tggaagcaat 420  
 cttgtcatcc ttgattgtgt tctcatgtt ataggcataa ttttccaatg catttttggc 480  
 ctccactttc ttcttatgct cctcgtcctc agacttgat ttctcagctt cctgcaccat 540  
 cttctcaatc tctcctt 558

<210> 29240

<211> 378

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007c04d1

<400> 29240

gggaaaaaaa aaaaaaaac agggcataaa aaaaatcacc aacaaaaaac ttttggaaaa 60  
 aaccgggcta aaaaaaaaaa gcaaaaaaag ccccatggg gaaaccctt taaaaaactt 120  
 tttggggggg gccggttttt taaaaaaacc tttgaaccg gaaaaagccc caacacattg 180  
 ccaggggaaa gaaaaacggg ctcgtttccc cttaaaaagt cgaaaaaaa aggggcccc 240  
 caaagggggg aaccaattgg ccaaaaaagg ggttaaaaaa ccggacaccc ccatgggggg 300  
 gggggcccaa aaaaaacca aaggggggtt ccaaaacccc gaacggtggg gggcccttaa 360  
 aaaattcccc aacaaaaa 378

<210> 29241

<211> 538

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007c05d1

<400> 29241

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cacttctttc tcacaattac ataactcacc gtagcactct tggatatcaat agatagcata  120
tgggtgtagca actagctaca acggttgaaa attcagatat atatgatctt attctgggtc  180
tgggtttacgt tgtcatcaca ctcatgagaa gtactccaag aacaagtgac acccacattc  240
catacgccact gatcatcttg gcagtgccag agttctgacc agtggaatta acctgtgacc  300
aatctgaaga tgatgactca tccttatcag ctttaggccc ctttgccacc ccacttgaag  360
gttctgggtg caacgagggg gcctttgcag gtgccttggc aacaacaaag aagtccatag  420
gaagaagcac cttaccacc ttatatatag caagatgttt atcggtatat ataatgccag  480
tgacgggtgt gttaacctca cccgttgaga tgttcacact cccttcataa cttatcac   538
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<210> 29242

<211> 520

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007c10d1

<400> 29242

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cataacaaac gtaggtggga tattagagta ctattattaa tgggacacaa ttgagttcaa   60
cacaaaccga acttattttc aaggagcatt attacagacc cattaaacat caaagttctt  120
caaagtgttt gggaacacat ccaacattac acaacgagct taaaaccccc cacggagacc  180
gaggacaagg tgaagggttg attccttctg gatgtttag tagcgaggg tccttccatc  240
ctcgagctgc ttgccagcaa aaatcagcct ctgctggtcc ggtgggatgc cttccttgtc  300
ctgaatcttg gccttcacat tgtcaatggg gtcagagctc tccacctcga gggtaatagt  360
cttaccgta agagtcttca cgaaaatctg cataccacca cgaagacgca acaccaagtg  420
gagagttgac tccttctgga tgtttagtc agcaagggtg cgtccgtcct cgagctgctt  480
ccggcggaag atcagcctct gctggtctgg ggggattccc   520
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<210> 29243

<211> 341

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007d02d1

<400> 29243

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 atagacctaa catccacctt gattatcaac accaattgta tttaccatgc cttgtcatct 120  
 aacaataacc ttccaaatcc tgctatccaa aaaaatgtgg ggtttttagga aaagcaatta 180  
 tgtgtcattt ttgtgatgac catgacctgg ctgaaaattt gtgtcacccc tttaaacgaa 240  
 agttttattt gctagtgtta gcagccttgt acattcttgg ttaacgacga taataaggaa 300  
 gattttccgt cttcatctac tctgatcacc gctttatctg g 341

<210> 29244

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007d04d1

<400> 29244

gccatgaaat ttcactttcc atcattccat tccatgctac tactcttgtc ttctctcgtc 60  
 tcgttccac tgtacactat ccaatattat tattccctaa aaataaaaat taaaaggaa 120  
 aacagcttcc ttcttttttt tttttctctc ttccctccct tgatcgaagt tcttaataaa 180  
 cctcattttg tgaaaacact aaatagggtca taataattac gaatccacc tgctaattccc 240  
 aattcgcttc accgacacgt tcctaaaccc ttccatcatt tccataccct gaaaacacat 300  
 catcccatc ttctgtgct ccatgtaact cctcacctcc ttccttatca tctcatgcat 360  
 caccgccata aactctccac tcaaattcaa cgctcccaat ccaacctccg ccggaaccgg 420  
 tgccggagcc gcaacggtat tcaccggcat caccggcacc gtagttgcgc gatttgaaat 480  
 ttccgccgac ttcacaccgg gaagagacag cgacag 516

<210> 29245

<211> 549

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007d06d1

<400> 29245

aaaaaatcta aaactaaatt ttacatcaat atcgtgtcca atggttactc tcttgaaatc 60  
 atttcaagga tatgaagtaa aagtacacat tatattgcag tgggtgctatt ataaacaaaa 120  
 gctgctttcc atatatagaa aggttatgcc atcaagagat atagcgaact ctaaactata 180  
 tccatcatcc atgcaggtga cgtcatcaag agattagagg aatatgatac acccggttctt 240  
 gttcttgatc aaaagattag ctccaaaact cgggtaataa tcaataaaca ccgcgtggta 300  
 gccaatcttct tttaacagtaa aacatgtctc actgtcttac tgcataataat ctttatccac 360  
 gagcatgtgt atgtgcctct cttcaagtac caactccaat taacttgaga atgttattgt 420  
 gaggacttcc ccaataaaat ccttgaagga aaattggaaa aacattgcaa gccgcaagga 480  
 tataaatcat taatgcatgc atgcccatcc actccagaac caggtcatgc gacgacaccc 540  
 acatacatc 549

<210> 29246

<211> 536

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007d08d1

<400> 29246

gaaagagaaa acgaatatgc cattttctac agcttggaaa ctacacagaag cattgctttt 60  
 acagaacaga cagagactcc tttccccgc tgtcaaaagc cacaacttgc acagcacgta 120  
 attaaacaaa actccattcc cttccccatt accctccagc aagattctca cccctcctgt 180  
 ttctcctact tacatgcaac tccaagttca catgcaaaga ttccaaacat cacacaaacc 240  
 ctagctacct aactaacgca ctcaactcact accataagaa caaactaaac aaatgtaaga 300  
 gaaaataagc tatgcaataa tcatgtaaaa cagttttaca ctctcattca atcacaaata 360  
 attacgtcta ataagtttgt ttaactttta aataatactc ataataattt ttgattgatt 420  
 gagagagtaa aaattgattt atgattagtt gagagtgcaa aaatgtttat atttgaactg 480  
 ataatgcata gtccttaaac tcatgatctg gcttaatttc tttttacatt acaaaa 536

<210> 29247

<211> 157

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007d09d1

<400> 29247

cactacttta tatgctttca taattatata atcattgacc ttatgcatct ctctctacg 60  
actgctatat cctatgtcat gaatctggcg tctataactt tggttaatgca atacaattct 120  
cattactgat ccgggggtctc gtagaccggt ccggaat 157

<210> 29248

<211> 472

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007d11d1

<400> 29248

gcagctcgaa tttaaattatt tttatttact cataaattag aaagacgaaa cacctaaaca 60  
aacacaatag cttcagtgga aatatgccac cgtcgataaa aagtacaaca cgatttgctg 120  
aatgtgtagc atttctctaa tcttctttct catcttcggt aatctcgta agaataacaa 180  
ttagtgccac aacgaacgca taatgaatgt tgggatacac tgtgaccatg aattgggtctt 240  
tcccaatcaa aataactctga accgtgtgct ttttatgcat ctgggctacg atgttggttag 300  
attcaccagc ataaacaacg caagatcggt ccaaccaact acctttgacc ttaaagtgc 360  
agacatcttc ttttgtgtta ttggccaaaa acacatgtaa tttggtctta aactggataa 420  
gggacgaacg cttcatagta aagattagat ctttggcctc tgagctttca cc 472

<210> 29249

<211> 510

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007d12d1

<400> 29249

agaaaaagga agactaatta ataccatgg tggttttcta ttctggagaa atccgtgcag 60  
agaatgataa ccaaattggta tacttttcta ctatcaagca tgtcttatag taccaatacc 120  
cttaaaacaa agtaaaagat gaagtttttt tttttttcaa aaaaaaaaag tggggggaag 180



cgcaaaagca ttttctatac gaaagcaagt tgcttttctc acatggccct aacagcttgg 240  
aatcttgggtt ccttggaag gaacttctgc tcagcataga cagacatgta gtcacaaaa 300  
acaaacttag gataagtttc atctacttgt tggctctctt tctccacaag ttgtggtgca 360  
ggacatatgg tggccttgaa tgaaggatta tagaaggagg caattgatct tctgttccca 420  
tctggtgtgg ccagaaccct gtgccagcaa ctcttgatc taccattgct caagacctca 480  
atctgatcac cagtgttgat gacaatggca 510

<210> 29250  
<211> 580  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007e01d1

<400> 29250

gaaactgaaa aggcataatc tattcgacga gtccgctaaa caatcactga aatttgggtta 60  
ttgcccaatg cccagagcca tgagggtcta tttgtacatg ggaataaaac aaaagactgt 120  
atccatcca tcaaatgggt tgttaaacyg ttacatcaaa agtgggtcaa ctctactct 180  
agccattcat ggtaaagata ggattttatg gtagtggata gatagcgact cactctctcc 240  
caccaggagc accagataat gataatctat caacactctg attctgtagg cacacaacca 300  
acccatccc aaaaaacaat gtttctcaac agttactgat ccaaccaact aatccacacc 360  
gcatatattc tcaaccaacc aaaacactgg agttagtatg caataaacat tgtctgggta 420  
ctcagtaact tataataata agaaagtact gctctgaaat ctgtttcact agtatggtgc 480  
aaatatgatt gaagaattgt gacccccaaa accaaatgaa ttcgacatgg ctgccttgac 540  
atccagtctc tctttctttg agccaacaag cacttttagca 580

<210> 29251  
<211> 509  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007e04d1

<400> 29251

tcgcgatcta gaactagcat atattggacc ttgtatccca tccaatcctt tcatgtcgga 60

actggtgggtt tcttcttggc aggtgcatca tatccataaa gtgcgtacct tctgaaaaca 120  
catccagttc cgacatatat tggctctaga aagaaaaaga atgccaatag taagaaggag 180  
aaaaagagga aggtgaagca cagtgaagca tcaaagcaga tacatgcact tgaaaatatt 240  
gaggcggtga atgaaggaac caacaatgag aagacatcca atctgactca aacaaagttg 300  
gagaagaggt ttggacagtc tccagtatct gtagcctcca cacttttggg tgatgggtgga 360  
gttccacatg gcgtgagtcc tgcatacctt ttaaaagaag ccatccaggt catcagttgc 420  
ggttatgaag acaaaacaga atgggggaaa gaagttgggt ggatatatgg ttctgtgaca 480  
gaggatatct cgactggatc taaaatgca 509

<210> 29252  
<211> 538  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400007e06d1  
<400> 29252

cagcagtagt tacgactttt ggattttaca tatagcactt ggccacaaca cacagaggat 60  
tcttcttatg ctgtgtaact cctggcaaca cttcagtatc aatgtcttcc tttttcattc 120  
cttgtggcaa ttcccagtc aaggaataaa gaagattagc aagtataaga tccaatgcag 180  
caaatgccat attcatacca gggcacaatc tacgaccagc accgaatgga ataaactcaa 240  
aatcttgtcc ataaagatct atgtcgcaat ttaaaaacct ctcaggtata aactcttctg 300  
gatctttcca agccttagga tctctatgaa ttgcccaagc attcacatat aataatgtct 360  
tggctggaat ttcgtagcca tctaacatgc attttttatt tgtttctctt ggtataagta 420  
gtgggtgctgg taagtgcaat ctaagtgtct cttttatcac tgcccttaag taggaaaact 480  
tttgaatatc atcttcatcc aagaaatctt tcttaccact taagcctcta atttcttc 538

<210> 29253  
<211> 607  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400007e07d1  
<400> 29253

aaaagaaaat ttggaaataa atttattcta tcagccaaat attgatgtcc acctagcctc 60  
 aaaatcatgt aaaagggttta aaatataaaa atgtcaaaaa cttgttttta gatgaattaa 120  
 agattgctaa ttaagctttt attgattggc actcaatttt gcctttgaat tttctgatgg 180  
 atgaggtgtg ctatcgggtgc aagcagtaca agaaagaggc ttgtcagcaa gattgatccg 240  
 caagggttcgg tgcttctcat tctcaggtat atggaggaga gcatccatga ttaaaatgtc 300  
 ccaatcacga ggaaggaaaa aggaagacca agtgtcatct ccatttcgaa cagccttcag 360  
 ctgcaagaca ccattgcctt gtgggtccaga aacaggaaat gagcatgaaa cagaacgtct 420  
 ttcatgagct actgcaagag atgcattgta ccatggacct ttaacaattg gttctccaat 480  
 agaatctatt attgcctggg tcttgcttac cttctccatg gccttgctgc tacatccatg 540  
 atagatggca aggtcatcat aggcaactcaa agcaacacca ccttgaatag taatcaagac 600  
 aaatgac 607

<210> 29254  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400007e08a1  
 <400> 29254

ttagcgctcg agttctcttc ttctggagct aagtgcctaa gcttaaattgg cgtcgatttt 60  
 gacatcggtc cctgccgttg acgctcgctc catccccact agtgcctttc ctctcagaaa 120  
 acctctcttt caaactccac ccccccttgc atttcaaaaa tcataggttt gccgctagct 180  
 gcagctacgc agaagcagggt gacaacgctg attgtagctc taacaccata aatgttgtgg 240  
 ctgatgtcag aagcgaacgg atagtactcc tcggaggaaa cggctctgtt ggctctgcca 300  
 tatgcacggc agcagcgtag acgggcatca aactaatagc cctaattagg acaaggcgac 360  
 ctacttattc ggat 374

<210> 29255  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400007e08d1

<400> 29255

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agatatgaac ctcatttatt acatttagta ttgttttaaa caccattctc ctcacacggt 60
cacacactac tcccttaaaa tttaaaaaag attgtgctcc aaaagctgcc accggtatta 120
acacaaggaa aatagcctca ttgtagttac tccctgactg tacaattatt gcaattgcag 180
gtttatctcg tttgactata tccggatcat attcataccc gtactttatt ggcagcgtcc 240
ttgatctggt caattgtaaa aacaccaaag aagtcacat ctgtgacacc attgataaca 300
gccagcgcaa catcgtcaac actaacaggt ggagctaaga gtaaatacaga tgcaggaaga 360
gaacttaaaag gtttggtgaa gttctctatt gctcgtagaa ttttttctgc tggctcccct 420
accaaatcca aaggaagctc ataaccattc actctcctgt tcccatatat gaaagcaggt 480
cttaagacaa ta 492

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<210> 29256

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007e09d1

<400> 29256

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gcgtgtgaaa ctttacatcc gagaaatcaa gaacttgaaa gatcaaaatc cttatactta 60
aactatggac agaatgcccc tacatgaaag cgcagaaaaa tagaagacca acttgaagta 120
gctgcaacac ccaacactaa ggtttacaaa gcgagaaaca atggttgcac tcatacagca 180
catagatgta aactagatg aatccttatg cgagagcacc cacaatcctg attgttcttc 240
agggatagga ccgggcagca agatatgaac aatttttttg aaagatttat actagataat 300
tgtctttctg gctatgctgc atacaaacct gtacataatg agcacaatcg taagctatag 360
agcacttggt gcatctatca tgcttaaatg cagactgtag cgcatagtcc tgctaccaat 420
tccagcgggt cctttttgca tcatggcagc aaattcacca taatcaatcc ttccatcatt 480
atctagatca act 493

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<210> 29257

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007e10d1

<400> 29257

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 ctgaaactcg ctgcgcttaa caaaaatgta atcaggggtt cgcacaaaca caacacatta 120  
 aaacacagat aaataaaaagc aattttgcca ccgtcgatca agaaccagc tctgggaaca 180  
 acagttgcga gatgatggtg gagacttcaa actttgtccg aaaaacaagc tacctagaaa 240  
 agaagacaca agagtacaga aaagaaacca acattttattg taaccaacat cccctgatga 300  
 accagcccg cagattcact tcttcttctg ggcagccttg gtgaccttg ctccggtagg 360  
 atccttcttc tcaacgttct tgatgactcc cacagcaaca gtttgacgca tgtccctaac 420  
 agcaaaccta ccaagtggag gatactctga gaaagttcaa caaccatggg tttgggttga 480  
 tcatcttaac ataacagcat ca 502

<210> 29258

<211> 552

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400007e12d1

<400> 29258

gagcccaacc atttaaaatt tctttcccct ttgcaacatt tctcccaggg aacaaacaga 60  
 ccaacaccaa ccaagcataa ggccccagct atcatcaatt tccagctgga taaataaata 120  
 aaccaacat ttttgtttgc aacaaaagtt aaatttatta atagtagtaa taatagtaac 180  
 atattaaata ctataatcac tagccaatca agacacaccc ctcttcgagt gagtgatgaa 240  
 ccttgcaatt tgcacaaacc tttttcaagt ttcaacccca attaaccgaa attggggatc 300  
 caaccagtg cttcccatcg gaccattcta cccttccaaa agcgttttct gtatgctgtg 360  
 gcgaaccgga tgacgaaaac gtgacggtga acgttttctt ctcgttctcc ttgaaactca 420  
 acacttgagg ttctaccgag attntaacgg acgcagtgtc tgacgtcacg gaagctttgt 480  
 aagttccgc gggccccacg ttagtgagag tctcgtgtg cttaaccacg cttcctgatg 540  
 attcaaaca ca 552

<210> 29259  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007f02d1

<400> 29259

caaaaaagtt catttaggct taaaatgttt ttgcttttta gcaaaaaacc ctttaattta 60  
 cataagctaa caaaattttg aaaccgggga gaattaataa aactttaacc ttgggataaa 120  
 tttgcaaaag agaaaaaaaa aggaataaat tctttatagt agtaggaaag tagtttttgg 180  
 ccggccaaaa tttaaaaatt agggatttgg gaagggtcgg gcccaaaaat tgaaaccctt 240  
 tagcaggatt ttggagcaat ctttgggggg aattcccttt aatttaccct aattttttta 300  
 aactacttgg ttaacaaact tgatggaatt ctgaaaaggg ttttgaacag aggaagtgcc 360  
 accccttttt tcagggtccc aaagggtggg gcttttataa gcaaaacttg aaatttgaat 420  
 tgggggagtg attg 434

<210> 29260  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007f05d1

<400> 29260

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 attgcgaagg atgccaatta catcactgac aacagcatac ttattactgc aaaaatgtta 120  
 caaaatatag gtccatgaca aataaatgaa aaatggctgc caaagcaatc atccagaggc 180  
 ataaatcttg taaatttgaa taaaacattt gccagacctt caatgaagtc taaatgaggc 240  
 aaaaaaacta taatgaacta atagaggctc cagtaggttt tgcgtcggaa ccagttgtaa 300  
 ttaggcaaac gctgaatagg acccgtggca gcaataacaa catccttgct atagataaat 360  
 cggttcgtaa cacgtttaat tgtactggca tgaacagctt caattctagc aaacaattca 420  
 gctaattggga ttcttcgacc atatgtgagt agctgacgac caatattttt agccactgtg 480  
 cttgttccat ctatgt 496

<210> 29261  
<211> 308  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007f08d1

<400> 29261

aaaaattaca tttaccctgc aaaccgaaaa acttgacaaa aggcataagg aattagctgc 60  
cgctcgacaat cgaggatcaa ctgccattta ccctgaccct tggcaaaaac catgaaacca 120  
aaacaaaagg caaaagaagg gaaaacttcc gggaaccaag aataaatttg aactacaggt 180  
tgcagtttga tttgacattg ggcccaaagc cgaatttccg ggcgacggcc gcggacatgc 240  
aaagtttttag atagggtaaa ctgacaccaa agcccaggcc actggccgac aacgtaaaaa 300  
ccgggaaa 308

<210> 29262  
<211> 527  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007f10d1

<400> 29262

cagtaatgaa atttatatta gacgtcatta ttttttgaat tgccattaca agttacaatt 60  
gcaaattcca tttaagcatg aataggacat ggcttgaata aataaaggag tttaatttgt 120  
aaaagaaata tataatcata gacagcatta cacaagatta tactctatgc agaggtttagc 180  
ccttcaggaa gggattcact gtctggatca ggcctaagaa accttctaca agcataaaac 240  
actgctgaat ggaagccact tgggttgtca atgaacacaa agtgcccggc ctggggaacc 300  
ctaaggattt cacatggaac cttcatttgt ttgcgtgctt cttgggctcc ttcataattc 360  
atccagtcct gaaaaccata tatgaaggtg gtaggcacct tccactctga agcactgtga 420  
agaagaggtg acctcgggag tcctccaaat gaaaatatat attttaagca cagctcgcca 480  
ctagctatgg ctgctaaagt atggtaaaca taatctgtca gtaatct 527

<210> 29263  
<211> 432  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007f12d1

<400> 29263

acacaaaacc tttttttttt ataaaaccgg ttacaaagcc agaaataaat taacacaaag 60  
gaccccttat caaaacaaaa gaagaagaaa cctagtaaaa gaaaccagc atggcatgca 120  
tacattttca cctaccctt taccataaaa ccagaacctt aattaagccc gaggggaatta 180  
atacatatat tactcgatca caaaagccca aaaaaatta tggaatccct ttatccatgc 240  
acaetcacct tacattaaaa caccacccac caaaccacc atttctacaa caacaacgtt 300  
attcaccac ttcatcggac accctggaaa aacaccgcc ggaaaggcct tcccgtcgct 360  
ggcatcggtg cggcaacag ggccatcgtc cgccgccgtg gaattccctt tataagcctt 420  
ggggaaaccc tt 432

<210> 29264  
<211> 383  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400007g01d1

<400> 29264

aactaaataa actcgttcat gtaaaatcct tacgcaaact aaattaacta aataaatcgt 60  
acatggcaag cctgcacgcc aactaaaggc tgacttaaat tatgagaagt gggacacact 120  
atgcaaaatc caaatagatg aagatctaag gtttgaccat ttctgggcac aaaacggggg 180  
gtaggggaga tttaacgatt agccttgga actctagtaa tttgatccta tcgcttgata 240  
gcatgactag cggatgaacc ttgggacgca tgcagaagtt gatatgacac tattacatga 300  
cgtgttttga tgtttctgtg accagatctt cgaggacctg gagtcagaag atgaagagtc 360  
aagatgacca cgaagaaggg ggg 383

<210> 29265  
<211> 565  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmst02400007g03d1



<400> 29265

ctattaaagc aggggacaaa actgaaacat gcaaaaactcc attaactagt gaaagccccc 60  
 tgccatcatg cttgaagcct tggectcatc agctggcttt ggagttggca gcaagacaat 120  
 cgccattatg gcgctcaacg cggctgccgc agcaccacc atgaaagccg gcaagttgcc 180  
 accaccaaac aaggaatccc aaggaccact taatgcagac accaccatct gtggtaccac 240  
 aattgcaaga ttgagaactc ccaaagataa accttgtcct gtcctgaag cgctgcagta 300  
 tattgatgct agagcaaaaag ggacactgaa agtaatcgca aggggaactc caagaacccc 360  
 aaagaaaacc atggacccaa ccaccacccc ctccggagggg tggcccacgg cggcgggggt 420  
 catccggcgc tgggtgctccg ccaccttggg gatcaccacc gtcattccga acccaatcgc 480  
 gagaataaag ttcacaatcg ccaaagcct ttcactccnc aaccatcttc ccaacggctc 540  
 caccgtcacg acatgaagcc aacac 565

<210> 29266

<211> 521

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007g05d1

<400> 29266

ctcacacaat aaatacaaga gattctgcaa actgaaaaag ggattttctta ctaaagcaaa 60  
 ctcaaacaag aacaacttcc actcatttgg catctaccgt agtagaacag gatcaaaagc 120  
 agctctctga tagaacacac gtatgtatta tattgaacat cttgcacagt ggttcatttc 180  
 tcacagctat tgcaacttaa aatacttgca aagcttctgc aaattccaaa ctttcttttt 240  
 ctcccttctt tatggatatg acaaagtgat cagatcatga aacaataatc aatccattga 300  
 atttgaatct gatttttggg ttggatcgat gccaccattc ttcattcttag gaagggacaa 360  
 caaataggcc aaagcctact aattaagcgc ttaaaaactgc attagtgggt ggtttaagtg 420  
 tgatgttagt aacatcagct tgattattaa aggggtgttct ttgtacgaag aagcatgccc 480  
 caataacaat gtagcacagc aggagaacaa ggcctttcat g 521

<210> 29267

<211> 509

<212> DNA

002200 "ETTES" 095311

<213> Glycine max

<223> Clone ID: jC-gmst02400007g07d1

<400> 29267

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aagaaaattt tgcaaaagtg tgcaataaaa acacgttatt ctaggttaga ctcatcgatg 120  
gtgttaagca ccttcataac tcaactcttc aagtagaggc aatccagtgt atgctataca 180  
aagtccatat tacttacaag tatacaaagc ccatatactt acaagtagga tggtgacaca 240  
taaattgaga tgacaccaat tgtgtgtgat agtgattaca tatgacttca agatcatttg 300  
tggaagaaca tcacaatttg ctaaagata aatttgtcac tctcacaaga actgctatta 360  
atgatctccc attgctggaa caataaatat gatcttcagg catacctcaa ctcaggcggt 420  
acttccttcc ggtaacgtaa tcaatcttgt agttgaatca tattccattg cagttccaca 480  
gttggagcat ttgacagtgt tgggtgaac 509

<210> 29268

<211> 544

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400007g09d1

<400> 29268

agaaacagaa cagttttcca aaacgggctt tacaagctac agactctgcc tacgaatcaa 60  
ttagcttgct tacaaaagat aaacagcaaa ttaattgaat caagttaagg ctgacacaat 120  
attatgtttg tcagcgtgat caaacgtcaa aatacattta agacaacaaa actgattgag 180  
cagatacaat tgatgctgct actgttaaaa aagccaaaaa aagttaaag aataacagaa 240  
aatacattta caaaatacac gtatggccaa aaaatattta cacgttcgc aataacctat 300  
gttatgtag tcttctactg tctggatctc acccatcatg atcctgttac tcacgacatt 360  
gaatcccaaa actgaagagc ttaccttttt tcttttgetg ccgcctttct tctttccaac 420  
ttttgaaaag gatccatcag tgtaacctag ctctagtaca tctgtatttg catcaacttt 480  
ccgatcatc acggtttgaa aagctatttc caaaacatct gatggtagta ggtccatgta 540  
attg 544

<210> 29269  
 <211> 553  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007g12d1

<400> 29269

caatgcaaaa gaagaacact tggtaaaatt tctagcaaag gaatttacat caatactctt 60  
 ctaaaaatat atccacctat actacgattc aacccgaaat acataaacac tataacgcc 120  
 aactaaaacc cactccaatc cctcacttct tagccttggc ctttttctgct ggagatttca 180  
 cgcttttagg tttcttcaag acgctcttgg gcttcttcac ggcctttacg ggagtcttct 240  
 tcgcaggctt agcggcgacc ttcttcggcg cggccttagc gggcttggcc ttgggcttgg 300  
 tggccgcagc tttggccttg gggttggcaa cagccttctt cttaggtgca gcagctttgg 360  
 gcttgggaagc gggcttggcg gcggtttag cgcagcttt ggtgggcttc ttgggagcag 420  
 cagcggcttt aacaggagca gacttagtcg gtgcgagctt gaaagagttt ttgaccttaa 480  
 cgagcttgcc agcagcaaca gacttcttga gatgaacgag aacaagcttc ttgtagggtg 540  
 gagggcaact cct 553

<210> 29270  
 <211> 101  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007h01d1

<400> 29270

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 actatgaaga acctaggcag gctccaacca atgacggcca t 101

<210> 29271  
 <211> 510  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400007h03d1

<400> 29271

gcaatataaa aagagaaaaa aatcgggctaa aagggatata cgtaaacatt tcgattgagt 60  
 ctagtacag ccatcacact aaaacactat aggtatcctt cccgaacaat ttagcccgaa 120  
 gaacccaaat gagtggccaa catgaccctc ttcttaagat ccacaattac atgtgactct 180  
 ccatagctac attgggtcaaa tacacaaccg ttaaaaccag gaaatactca tataaatggt 240  
 tacaacaaac agaaatcaag tcctattcac ggggttcaagc gcctcaacag tgaccacact 300  
 atttcctcta attaccacca tccctatgtc atttttctca ttgccattca cttccacagt 360  
 gttgtcaaca actaaattca taaactggtc aaagccacgg agagtaccaa caaccatgcy 420  
 atttgcgttc agcttgatct gaagcttctt atccatgtac tttttcaaat cccgtggttg 480  
 ccctgacctg ctcatgggtg agaagagat 510

<210> 29272  
 <211> 61  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400007h04a1  
 <400> 29272

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
 g 61

<210> 29273  
 <211> 560  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400007h05d1  
 <400> 29273

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 acacaatcta tagtttttca tcaattaaat aagccagtca atcaaatttt atacattttc 180  
 tgagttcctt cctcatgctg tattaaacga ctgccacaaa ttcttgattt acacagattc 240  
 cagcctgtca cttgtgcagc acacctttcc ttgccatttt cgggtacctt tgaatgtgat 300  
 tcttctgtta ctccaatgct tcataatctg tcctctcctt ccacttactc ttgcgtagtt 360

ttataggacg gtttccaaca tacttaccat tcattttcttt aagagcacca gcaaggtcag 420  
aaggattggc aaagctcaca aatccataac cttttgtttt accagtcgc ttgtctctga 480  
caactcgtgc catgttaaag gaaggaaatc gtgaaaatgc tttgagagaa catatcatta 540  
cctcgtacca gatccacag 560

<210> 29274  
<211> 509  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400007h07d1  
<400> 29274

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atagataaat ggtgggaacc caaacaaaaa gaaaataaac ttgtatttta tataatctta 120  
gaaagtaaag ggggtgttca gacacggaag ttctttccag tgaaagtttg accaaattgc 180  
caatttgatg gaacaatgtt ccaagagggtg gaagagcgac ggctcgtggc ggtgactctg 240  
aaggacaaaag cctgaccac caaacggcg tttgactgcc agttctgtcc ccagtttctg 300  
ctcattggca tccacccgt tctgatccc ttaacgtagg cgtgcacgat atcccctgca 360  
cccgtacgt tgctgatcaa aaccagggtta aagtaacgga aaccgtttat tgtgaacctg 420  
atcccaccat gtttctaca tgccaccctg cggaagcga caggcacgat gccggcgcg 480  
tattcggcga ttttaaggaa catgggcat 509

<210> 29275  
<211> 542  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmst02400007h08d1  
<400> 29275

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accaagattt tgtggcagtt catgtcatgc cttattatgt caaacatcc tatacaactt 120  
cattaacaac aggggatgga tctcccaaga tcattttcat aactgatttt ttgactgaca 180  
tatcataggt aatgttcata aaaatgtctt gtccataccc tcttcttagt tgaagagcct 240

ggtgtatcac cactcccagc aaattcccat ttcacaacat ctccatccca agaagagcta 300  
 acaagtgtag tgtggaaggg gtgccagcta caatctctta cagggtgattt atgggtgcttc 360  
 agcgttgcga cttgagctcc acttacctgt agtgagttat caaagttacc atcaaaagag 420  
 aaccaacttg aactttttat tgattttttt ttcaaataaa caaatctaac tgcaaaattt 480  
 cctgattaga atgaagntag ttcatgcata gtggctaaga ggatattcat cacgttccaa 540  
 ca 542

<210> 29276  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400008a01d1

<400> 29276

agtctgaaag ccacatacat ctttttttaa gttacagtta ttgtacacgg atcggtggg 60  
 gtaaataacg cccgatcaatt ttctcatttt tgggggaccc tttgaatggg aaaaataacta 120  
 aaaaaatgac tacctaattct acataactga gtatcacgct gcttctgggt gcaaactcatg 180  
 caccaagggc tgcttaaatt gggccatagg aagagacctg atcgtaactt cctctggggg 240  
 cttataacaa aatttatagt tctattatca tacataccca ttggcttccc tgataggaaa 300  
 ctacaatccc tgctttcaac cataatggga agcttcagta atcattgggt tcatctttca 360  
 ttattgtgtt tggaccatca ttgaaacccg tgctaggggc aagctcattc aaatcaagga 420  
 agcgtctctt tcctgtgctg ctctcaactt cctcctgacc aggactgggt aatttttcag 480  
 gaggcttggt ttggtcattc tcttcta 507

<210> 29277  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400008a12d1

<400> 29277

aacattcaga tttcaaggta agaattttat tgcacaatga gaaggcagag aaaattgatg 60  
 gttctgtttc tcagtacaag ttttagaatg aaaaatgaag caacaagtgt ttgtagtggg 120

0953113-032200

agtagtagta gtagtaagca tacaaaacta caatggcatg gtacatacat ataataattg 180  
aattaccaat tcagaatttg atggctctca cttccacttg ttggcaacaa tgtcagccaa 240  
atccacaacc ctttgggagt agccccactc attgtcatat caagcaatca ccttaaccat 300  
gtcatctccc atgaccatgg tcaacgatga gtcaacgggt gaggacacat cagtgcacct 360  
gaagtcaaca gacacaagtg gctcatcaca cacagagagg attccctgga gctcattgtc 420  
tgcactctct ctgaatgctg cattcac 447

<210> 29278  
<211> 311  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400008c11d1

<400> 29278

gaaacccaat aagaattatt gacattaataa gggaattgcc caattgggga gcaatttatt 60  
gtcccaaac tgtgacaaaa cttgtttgac acattcggac tataaattta gaaatgccca 120  
ccttgggaaa acttttatgt gaccacaagt gcacagcttt tggcccccaa taaattgtcc 180  
gagcaatatg ttgctaaaga aagaaaagaa ccactcactg aaatttgtgc ccatttgaag 240  
aaaattggcc aaaaaaagtt gcagcaaat tattggacct atgtaatgcc aacaagagat 300  
gttccttgat t 311

<210> 29279  
<211> 517  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400008d01d1

<400> 29279

gatagtaaac cctaccaatt atgttatttg gtgcgtaaag agcatagtat ctctagaaa 60  
agatggagac agtgagagag gccattcaaa ttttcacagg actcattttt ttatgtaact 120  
taaagacaaa ttgaacatgg tctttcttcg tctttatatg tgattttttc tcaaaaaagc 180  
acggttcttc ttgaaacttg tccaagctcc ttaactgta tagtgctgct gaatcgtgtc 240  
aatgtcaagc cccttcagct tcaccactga ctgcacatgt ccctttagag tatgaagctc 300

cctaagcctt gcaacttcag cacgtctctt ggcttgttct gcaatctctg aaagctccct 360  
 gtagctatctt ttgtcattga aaagggttga agtttccgga ggctgaagac cgtgaagtgt 420  
 cctctgtgca gccgccatt gagcttcctt ctcttcttta ccatagtctt tctttgtagt 480  
 gaaagcagtc ttgttctcca aaagattatc ccaagcc 517

<210> 29280  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400008d11d1  
 <400> 29280

aataatatat gtaaagcaa tcattcacat gctgtctata tttatgctgc tgatgtagtt 60  
 tctgacagca aatagtgtac tcacccttaa tatccacaaa tctgtgtatc ttttgcataa 120  
 ctctactcag ttaatgtttg gtttgcattc tctcccaaca agtgattcaa actaaagaag 180  
 atagcttctt tgaacttgta tcttaacatg atcaagacga acattctcaa acagtataac 240  
 aaaatgccac agggggcatga aaaaaataag tgtattccga ggaacactta attctatgca 300  
 aaaagaccag cttctatgag ggtgtgctat gtgcttgtaa agttaggagt aagatatgga 360  
 gaaatccatc tagactaatt gagcacacaa ttattagagt gcacttaaag acccatatta 420  
 atgacatatg agattctgaa attaggcacc acagaacatg catgactagc aacaagacag 480  
 aacatactt 489

<210> 29281  
 <211> 509  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400008d12d1  
 <400> 29281

gaaaccatct ttaaattgca cataccattc tgatacagga tagatgcatt acaaagctaa 60  
 caacaccaac caactttcac caaaccagca cttaaaaaact taaacactgt ggccaacata 120  
 tatattttcg ccaatcacat gaaagagtcc ttcaaattgc agagatgtcc aataactcca 180  
 agtcacccac cacatataac aatataataa gaacacccaaa taaaatgtga aggaaactcg 240



gatcatttca tgatgaaatt atgcataact tcatctcagg ccatgaaact ttgacttcaa 300  
 atcttagatc ttatcaagct tctcagcctt gacaactggg tttgcttttag ctatgacatc 360  
 ccgagcagca gtgcggtaat caaatgggca attatgcttg tctgagtagc gatgtacagc 420  
 acaaaaaagg tcaccacatc gacaattaa cctgtcaaa ccaactcgct tgttgcaact 480  
 gctgcagcgt tttggtccat ccttcagct 509

<210> 29282  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400008e01d1  
 <400> 29282

aatggaagac ctaccagcc ttaaaacccat aaaacttttg tttatgaacc aaaaaaggga 60  
 caatccttac aggggtacaac ataaataaca gtccttaag gggttcctaaa aaaaacaaaa 120  
 cccggggttt aggatcccca ttttattttt tcacagcttt tttaaaaatc cggggaaaaa 180  
 cactccttgg gacaaacagg ttttaatttc cccaaaaaca ttagtctcac tttcactcac 240  
 atttattttt ttaggaaaag accccccaaa taaaaagctt tactccaaaa aagccacttt 300  
 tacaattttc ccagtttca tacaacccc ctttgggtac aacttatagc aaggacgggc 360  
 caaaaacctg gggcataagg gtgcccaaaa tcaaaggaat tcaaagggct tgaaaagctt 420  
 cacatgggca aacttaactc ctttgggg 448

<210> 29283  
 <211> 368  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400008e12d1  
 <400> 29283

aattgggcta cccaacctta aaaaaacacc ggacagggtc ctttaaaatg aaataaaaaat 60  
 acccccatTT taaaagaaaa aaaaaactgg ggtccctagg gtttttaaga aaaaagctc 120  
 ttttaaaaaa ctaaaacatt catgaaatac accagcaggg gacttaaaaa tcttaaccgg 180  
 gaaaaggggg gaaaaaattg gttggggggc acataatttt ggaaaatttt ttttaaaaaat 240

tttgggtcaaa gtttaccatc ccaaagattt ttaacgggtt taaaggcccc caagggtttg 300  
 tcaaaaaaaaa aaggggccctt aaataggcta acccggttaa atttaaagaa cttttccaaa 360  
 actttttt 368

<210> 29284  
 <211> 594  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400008f01d1

<400> 29284

cacaatattc taagcattga atgattaaca aaatttaa at gcagcagttc caatatatag 60  
 ggactcaaac atcaaaacaa aatttcgaag tttcgtttac tagcctaata gtgagataaa 120  
 ttaccaacct tccgaacctc ctactgtaa tacaggggaa aattactaca tgagtacgat 180  
 aaaatgcagt atcaatattc actgaccacc atgcttagcc ttcttatggt gttgcagacc 240  
 gacttcgttg gtgaaagact ttttacaact tgcgcaagat agttgtccag cagaactggg 300  
 agactggcct tttgtactgt tgggtgtctt tccaccttc ttcgaaggat ggggagttgc 360  
 tacatgtaca tttttcttac cattagtctt ttcaggagta gcagttttag ctttcttggc 420  
 agaaacagga gtttttgctg cagactcatt tggctctctc ttgccctgat ccaccttctt 480  
 agcaggggtc tcttcacac tctctcatc actatcgtg tcatcatcca tctcatcgga 540  
 acttccaaat tcatcttcac cagcaggatc atcatccgat catcatcaga atca 594

<210> 29285  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400008f11d1

<400> 29285

gtggaaaagc aaaggtgcat catcacatga taaggacacg caaaacacac ccatttttagc 60  
 acaatagata aaaccgtata ataagacccc taatgctact agtcctgctg aaagcattta 120  
 atttaaattt aaaatccagg gactagtctg gggaaacatc ctacatatt acatcaataa 180  
 ctttcattat ataacagtaa gagataccgt gtagcaatat tataagttac aaaacatata 240

caccgcaagt cacaaaagtc agtcccatg aaaatcaagt gatgtgaagg ctatttcggt 300  
 catgattgaa ctgaaatgtc tgcatttgcg tggttggtga tcttaggagg agccgttttt 360  
 gtttccttat ccgctttagt tcgttctttg ggtttgcaaa caccattgct gttgcgtcga 420  
 atgttgTTTT tgtgaggaaa aggggcattg gaaccacc 458

<210> 29286  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400008f12d1

<400> 29286

acgtacactt acccaattat tttattaatg tcatgtatgc caagtgacat ttgataagtt 60  
 aagtgcagat aattgaaagg aagaagctac tagttgaatt tgtgggtcca cttgagagcc 120  
 aaattggaga tgttggtggt ggaggaacca tgttgagcga gagccttagc cgcagcctcc 180  
 ttgatatact tgattcggta acgaagcttc ttcccttggt caccttccat gaggcacttg 240  
 actaggctgg ctatctcctg tctctccacc aagccactct ctgcaacgtt gggcctcagc 300  
 gccaccttga cgatcatcgt gagcataaag gcgttggtcc tctgctccgc gaacagagggc 360  
 caggctatga aaggcacacc gttcaccacg ctctccagaa tagagttcca gccgcagtgg 420  
 gtcaagaacc caccctgga tggatggccc aatacctgag gctgcggagc ccaagactga 480  
 accaaaaacc ctcttccttt tgggtctttc 509

<210> 29287  
 <211> 79  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400008g06a1

<400> 29287

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60  
 aaaaaaaaaa aaaaaaaag 79

<210> 29288  
 <211> 492

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400008g11d1

<400> 29288

gaacaccatc acagatccca tatatttccc acgatacatg ctttaagcac taataggctc 60  
 aaaaaaaact aaacacatag gaacacaaat ctaaatagaa taaatataca aaatacacaa 120  
 cagaactctg cagctggtaa aatccatagc tgatacaaac aatattcaat acccattcaa 180  
 agcttaaaac aagttttttt aaaaaatggt gtgcgacctt gatttaggcc acaatgtcaa 240  
 tgtttgtaca acaaaatcgc aacaaccata atttagaacc tcgaactgaa gctctaccag 300  
 tggaagaaac caaaccatat caaataaaaa aaatgcagtc atagtagggg caaaggatgt 360  
 ttatcaggct caatcatata gattcacatc acattgaaat aacgtgggta ttaaaaaaaaa 420  
 aaacataaat ccaatatgaa catcaatgga tcttagcaat atatgggttat cttcaattcc 480  
 tttgggaaga tt 492

<210> 29289  
 <211> 547  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400008h01d1

<400> 29289

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 acaattaccc aacaaagttt ccatagacaa taactgccga caatattaca tccgacataa 120  
 ataatgaaat tgttccttta actttaattt ggatatcaga tactcagctg ccaatcagta 180  
 cagaaccacc acaacagatt cattctcaaa aatcaaacia tttgaccatc attattctcg 240  
 accatagctc tactttcatg atgaccacca tcctttttat cggtttcagt tttgtctaac 300  
 ttctcatcat gctttccatt gaatttaggg gagtggtggt gcatgtgatt tctctcatca 360  
 tccagggtgt gccgatgttt gtgatgatga tgggtggtgtt ggcgatgatg gtgggtggtgg 420  
 cgatcagact tcttatgcat tgatcttttg ctttcatctt caaaattttc ttccaatgac 480  
 tntgatctgc ttctttgacc atgactgtga tgataatcag aatcagatga cctcagctcc 540

acattat

547

<210> 29290  
<211> 511  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400008h11d1

<400> 29290

aataactaat cactatcgct tgaaataatt tgcatagggt ttctgcagac tttaccccca 60  
agattacaaa caaaatactt aggagacaac cctgccatca tgagaagccc aaaaacttga 120  
cccaaactac aatacaaaaa caaaacattt gccctgaaa ataacttggt aattagatta 180  
caggtagaga ctgtccagtg agactcaact ggcaggagtt ggaaaataac cattgaatca 240  
tatcaatgga thtagatcaa ataactttga catatcagat gcattcattc tactccacat 300  
aaatacaaag gtataaatat actcaaagca ggagtcttca cacctcactt ttgaataatc 360  
caccaactct aggcaagtca aacactttgt actttgctcg atatttcttt cactttaatg 420  
tctccttttt ccactccctt gctctcataa taatcatcaa gagcccattg atactttgac 480  
tgattcaatc caaacaacgt gcaaatgatc a 511

<210> 29291  
<211> 452  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400008h12d1

<400> 29291

aactccaaca ttttttagtac ttacgcttca agcaaacaat gcaacagtat gcacttgacc 60  
ttacaacatt tgaagtttct ctacttcaca gtcataattg ctaaaaaata ataaggtgcc 120  
tccaaggatg gaagatcatg aaagcttccg caaaatctag ctgcctaaga ctttatacat 180  
tcaaaattac cgctcaatgt taaaccagag cagcagctca cttctccgcc ctcatttgge 240  
tcttcaaatt tgcattgtccg gaacatagac aaaacttctc ctttcaagtc ctgatggtgg 300  
acacagaagt ccgcagtggc ataataattg cttttcggaa ttaggacaat aatgcatctc 360  
ccagaaataa tctaagttaa caatacggaa gaatagttag cgtattactg aactttattt 420

aagtattgcc accgtcagag ctgctacagg ct

452

<210> 29292  
<211> 472  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400009a01d1

<400> 29292

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tgctctcaaa ttagtcagca ggaacaaaga tagagagatc caacgatctt taaatttcac 120  
at ttgcccata aatatataac agaaaagagg gtatgggata tgagttaagt ttgatctca 180  
ttcaactaca gtatcccaaa ccattactct taagactttg aacttcactt gtactccagg 240  
atcatgttgt tctcaggagc taatccaaca caagccctta ggatgttttc cagcatagct 300  
cgctgctttg acagtgcatt aaccactggc gtactcggtg gaaccagagg ggccttggtc 360  
aggtaactga ggatggtcgc aactgggtgg aatgagtgga actttccctc attttcagct 420  
ttaaactcga ttcgagtgtt aagctcagca agaaggacca agtccaagat aa 472

<210> 29293  
<211> 485  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400009a03d1

<400> 29293

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tgaaagcaat gccacaatct ttggtttttag tccaaagaag catgtaccat ttgaaagcat 120  
gaccacaaaa agaaaacaaa ctcaacaaca tgaatttaac atacaggata tatataatag 180  
tttgcatcca ttttacttct ccatgtagga cacaaaaaaa agtctcagaa caatcacaca 240  
gtatagatcc ttcagaaact tttccctcag ttaaaaacca gcccatccag ctgggtgaga 300  
agttgacttg tttgcctcac caaaagcctg agactttgtt cctgcactgc taggtctttg 360  
catctgtggg ctgcctgcag gtacagcact gaagctatct gttccaaaac cccatgaatc 420  
aaaatcagta gctagaggaa caggttgctt gttctgctga ccatttttca ccctgacaga 480

tttgg

485

<210> 29294  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009a04d1

<400> 29294

ctcaaagaaa gtaaaagatg aaatgtgggtt tcatcgattg aactcataag tacaataatg 60  
 tgtaatgaga agggaagaga cagaaagcaa aacttaatca tttggattac agtccatggt 120  
 tcaaagttcc agagacagga actgaatgta cttgcaaaaa ataattaaat gaaaactgaa 180  
 taagctcagc caatgtttta caagaatgaa tattataatt tatggcaata aacgggtaca 240  
 gggctatttg ggagctagct ttttctgaca atgttctttt ccattttcag aaccaatca 300  
 catgtgcatt gtaggagcag aagaatatta ttgaaagatt gatg 344

<210> 29295  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009a06d1

<400> 29295

aaaataaatg atactatata tatcacgac aattccatat ccaaggtttc agcattgcaa 60  
 acaatcaaca caggaaacca acaccataat aaacaccaag agttgccaat tagaactaaa 120  
 aaacgcaa atacatcaaatt aaaaagtaaa cataaacgca gatacagggc caaagtttgc 180  
 accatttgac actttcacta ttcaattcac ctataataat tattaacaat caacatagaa 240  
 aaccatacgg ttacggagga cacattctca taccgagccc ttggccggcg ccggagcggg 300  
 ggagacagca gcggtggtct cggtggcagg aatcttgacg tagcctagct tcttggggct 360  
 ctcgatctcg tcttcgctcg aggagaagtc gtcgaaagcg gcggtggggg ggcgcgtgga 420  
 gaagacggac cagacgaggt acatggtggc ggcg 454

<210> 29296  
 <211> 182  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400009a07a1

<400> 29296

cctttctgta attttataac cgtcctttaa aattgtagat aaataattgc ttaaattgagc 60  
 tacattatta gtgtctttgt aggtgttagt aataaggctt tccaagctgc cgtgttaaatt 120  
 attaattgtg caaggctcatg caataatctg acaatcacat ttgtttaact aaactgttac 180  
 tc 182

<210> 29297

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400009a08d1

<400> 29297

aagttcaaaa tcttttatat agccataaca acttcacttt atattaatta tacaagtgat 60  
 tcaacaaacc aactaaaaaa gacaatacaa gatcctgatt cacaacactg aaaattggga 120  
 tgggtccagc cgctagctgg aacgagacat gaacagttta acactagcgg ggacataaat 180  
 ctcaagaaac tactgagata ttactagtt ttacagttg cagagcatct aaatgagaca 240  
 aaaaaacagg gtaggcgatg ttctatatat agcacaagat ggagtagtta agcatgagaa 300  
 ttggccagct gatttatcaa agccaaggca ttactagtca attgagccac ctgaagaatt 360  
 tggcctctca ccgtgttctt tacatttgaa ccaccagcag cagccgtctc ttggaagcca 420  
 tcggtgcacg tgctctcatc ggtcaaagca gcactaccc acgtttctac gtcactcatt 480  
 gtcactctcaa aattggaggg tg 502

<210> 29298

<211> 431

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400009b01d1

<400> 29298

aatattataa gcagagattc ataattcaga ttagccgaac ttatatacaga agcgaccaat 60



taccaaacat taaaaaaaaa aaaaagaagc aaccatgagc ttaacacacc cattacaagt 120  
 ccaaaacact tgaacttgct gaaaggcaag acatgaccac tttattctaa ggatgtttgt 180  
 ttaacacaaa acaccagagt gcacgaaaac cattacagac ataatacata agtttttagc 240  
 tacacattaa tagtttatca ttattcctaa ttaagggcta tctctgcttg aagcttgctt 300  
 ttccaacacc ttacttgcaa gtgcaggggt tgcaggagca gtttggtcca catttgagc 360  
 catcgttctc agcgggcaca cccatttcag caccctcaaa ttgagcetta acgggtgcc 420  
 ctcccatgac c 431

<210> 29299  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400009b02d1  
 <400> 29299

actctgtcta aaaggatgta ctatttaaac ccatgatcat tgaatctcca cgtcataatt 60  
 gttaataatg gatttaattc atacaaaacc ttaaagttaa taataataaa atgcaaccga 120  
 taagcattag aaactaatag caggggcaaaa agattcatta aagactgcag ggtggagaaa 180  
 ggggtggcag aagaaagatt gagggggaac caaagtatca tagacaaaat catgcagcag 240  
 gctgctcctc agtggcagga gcttctttct ggggttcttc tgtgaggcca ttagaggtgg 300  
 catcctttgg ctgtgaatca agtgcacctt ctgctgcaga tccagttgct tttgatgctg 360  
 ctttctcttt tccatcctta ttatctttgg cgtcttttagc aggagccggt ggtggaggaa 420  
 tcatgtgagg tgggtggtgta tgc 443

<210> 29300  
 <211> 468  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400009b03d1  
 <400> 29300

gaacctgaat tgatcaatat aattaaacag cagctggaca tccacccttt ctagggtcac 60  
 ttactgctgt tagagtgcc tgccttgtaa gtgatttgggt gttttcacca actttcctat 120

tgaagttcat aggcgttttg agagtttgca caataagctg agtcacagct agtgcttcag 180  
aacctctcag ttgatgacct ctctcttcta ggaaaagcct actttctttt gaaagctcaa 240  
tgtgatcgcc attatgagca gtcaagttct cataacgaac tacatttggt attagcttgt 300  
gatagatcct tgggctcaca actgcatcca agggtttcat tccaagatg aaatgattaa 360  
gaaagacttg aactacggct gcaataatgt tcattccacc gtcacctgca agtaccctaa 420  
ccaactgatc atcctttgtg acaataagag gagtcatgga agacaatg 468

<210> 29301  
<211> 406  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400009b04d1

<400> 29301

gattaaacat aacttacaac gaatatatgt aaaactaaat gatgtaacga gcaaaaaaag 60  
acattttctt cccacaacag ttggaactgg acaaaagagc aaaaaacaat tattataaaa 120  
taaataaata tggaagtaat aagcaaaaaa aaattattat taacttgaaa aaaaataagg 180  
gaggaaaggg tgcactacta tctagttcac cacactaaca atacatttgg actcattgct 240  
aaatggccac caaattttgc atttcatccg agggagaaca aaatactctt ctactgaag 300  
cagccgttgc tcgttgcctt agagtccata tctgaattg tccatggggg ttccagcagg 360  
tatggcctca ggttccttta tctcaaacac cagcgaatct gacatt 406

<210> 29302  
<211> 549  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400009c01d1

<400> 29302

gagagaacat ttttttttgt ttcacatata aaaatatata tgttctgaaa gaacacatac 60  
aagtacacaa aaaaaagggg gaaattcata aaaaaatata gaaaaaaaaa aacagaattg 120  
agtaagaggg aaggaaacat agagaaaatt ttagcaatca gataataaga agccagtagt 180  
agtgcaaaag tcccttgcca agagtgttgg aaccctttt agttaagcag gtacttctca 240

ggaatcacag gcttaatcac gtgttcttta agatcagctg caatctcatc atttgtgaca 300  
 gtctcatcat gctgtgtgga gatgagcaca gtgtggacgc ggattggaac catggcaccc 360  
 ttgtcattgt agtactcaac agtgacttgg gtcttgccat caggtctcag ccaagggcat 420  
 gtcccgttct tccgaacctc ggtgagcttg gcaccgagct tcgtggcaag gacatggctc 480  
 aagggcatga gctcgggagt ctcgtcagtg gcatagccga acatatgacc ttggtcacca 540  
 gcaccaatc 549

<210> 29303  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009c04d1

<400> 29303

aaagaggaaa actttaaaat aagttcattc caaattcagt ttttaaggat tgaaacatta 60  
 ttctagtttt ctttttaggtt gttcactaac catgaacaaa gtagctagct agcttatggg 120  
 catctacatt aatcctacag aacaatgata tatgacgtgg aattttcttt gtttaacatc 180  
 atcaggggttg gcattacagt gcatgaatac caaaaacagc ttcattattg aagtctctag 240  
 gagccatgct gaaacctgga actttttacct tggcataagc ctcattgtaa gcacagtcac 300  
 agagatcttg cccttgcatc ttcagggcca tagaagtgac atcaggtgaa gatgacacaa 360  
 acaaggcatc actatttggg ttgaaaacca tgaatgatcc atcattgtag tggctactag 420  
 tccagcccag ctgtaccttt gatatgctat tcagcttctg ctgtggtgca tgcacaggag 480  
 acgcattaaa taactg 496

<210> 29304  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009d01d1

<400> 29304

aagccaaaat aattacttat ttaagatccc attagaaagt ccacagcaat cggtaataca 60  
 tacccaattt tgtaacgggt aaacaaaccc atccaaactg aaatttttag ttctcttcat 120

tttacaaact tgggcatcca tttttggcaa atttaataga atacagagtt ttggcctaag 180  
 taaacaatga attagttctg attttgaggg atttagatac taaaattcag gtgatccatc 240  
 ccttaggaaa ttggtagtag aaattttggg cttggaatat gccaaaacta cttttgatca 300  
 gccagtacaa ttacggggtt tctggataaa ccagggtgcca cagcatcagc tttaggactt 360  
 ggggccagta attgatgcag ttttgcacca aagtttgggt tatttttgca aaaaccattc 420  
 ttattcttca caggtttatc attagaacc 449

<210> 29305  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400009d03d1

<400> 29305

cagtgaaagt tcatatcgaa cgttaatata ttatcagcaa agaacagagt gtactttgtt 60  
 attttcagtt acatcaacta ctacaaacgt aaacggccaa ataaacaaga atctaaagtc 120  
 atgacattaa ttaacataag caaacaagaa gaaacaggac aggacctttt ctgggggtctg 180  
 tacaaggaac agaaggatca aattcagtct gttaaaactc ttcttgccct ctctaattcca 240  
 tcgccctttc cttcaacctc tttctctttc tcccaccaa aagacaggaa actagagaaa 300  
 tattaatata tgtaattaat ctgtgaatcc aaggaccata ttctcaagca aactaatga 360  
 tgctatctcc attgctgaaa cattgcatgg catgtaaagc tgaatgtctt gatgatgtct 420  
 gtctttggtc agatgagaag gatagcccca gggacagtgt cngttgtggg tcaatggcag 480  
 aactagaaga actcgtggtg atgataccag aactgt 517

<210> 29306  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009d04d1

<400> 29306

acgagataac cactcggtag catatatata tagttagtga gaaaacgaca tacactgttc 60  
 acaggatgaa gctttatttc agtgtggaat ccattatata cagaacacat acgtagggtg 120

aaaacttagc tatggcactc tatctataga cggttgatct aggacaacac acaggacatg 180  
 atcttacata tgctccacca tctactatta aggggtgctga acaggcatgg gctacgtttg 240  
 gaacaatggg ggtgtgatct gcaatatcca cagatttatg gggaacccat ttgggggcat 300  
 tgttttacgac gatacggctg gcaaaggtag cgccggcatc aactcc 346

<210> 29307  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009d05d1

<400> 29307

ccgcttcttg gtttcattca ctccatccaa ggaagaatcg tctattgagt aatttggtat 60  
 ggtgaactaa cacaatagca cattttattgg aatttaacca gttcagcacc agcaacttac 120  
 aaaagaaaca atatggaaag atagcccagt atgtaattcc aactcaacaa acaactgggt 180  
 caacaaaaga gtgatccact ctttctctatc aacttgaaat gtcttcaatc ataaaagtgc 240  
 acattaacaa ttatgcttca gtactgggtc ttttctttgt ggtgtaagcc gcgtactcct 300  
 tcccagtatc atgtcttatt gtctgatcac cgaaatcaag gaatgcagat gtgaatgcca 360  
 atgctgatcc agcagaaaagt gcagttttga tgctccttgc tctgtaaccc ataatagttg 420  
 caccagcaac aaatgccgca acagctccat tgactaaatc cctctttatc ctatagtt 478

<210> 29308  
 <211> 589  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009d07d1

<400> 29308

gcacaaaact ggtaaaattc cagatcaata aggattgcgg cgaagccgca aagatacaac 60  
 attcattagg gaaaacagga gtggggaaaa ataagggggg aggggttgag gaagaatcaa 120  
 ttgctcacag agcatgctaa gacacctaaa tattccacac acagttattg aaacaaccca 180  
 atatagagaa aatttttctt tgggtgtatta taatataaag cagaacaaaa tgacttgga 240  
 gattctactt tcttatacca ttcacttggc aagttcgttg cggatgagtt ttgctgcggc 300

aaccatgttt gtgagggctg gcttcacctc agtgtactta cgggtcttga gcccacagtc 360  
 aggggttcacc cacatgatgt tcttctcgag cactgccagc atcttgctga ttctgtcagc 420  
 aatttcttca gttggtggta tacttgggga gtggatgtca tagacaccag ggcccattcc 480  
 agcaccatac ttcacacctt cgcggaagac tgacagaagc tactagtcgg aacgagagtt 540  
 ctcaatgggtg ataacatcgg cgtccatgtc catgatggat tgatgatgt 589

<210> 29309  
 <211> 535  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009e01d1

<400> 29309

aaaacaatct gatatcattt ccattattct ttttttctg acacaaattc aatacatctg 60  
 aaaccactat aagatgtggt agcgaggagc taacactcat ccacagattt attaaaccac 120  
 tacaagatgt gttagtggag agctaact catccatata aattaaacca ctataagata 180  
 tgtgttagcg aggagctaac acacattcac aaatttatcc tctactgatag gaaggcaaga 240  
 aaaccttata atttggcact gatcttcctt ggtgggtcaac taggcattga ccaacatttg 300  
 gtagtgccat tgcctacac acttaatttt acaagtcttc ttcacaccaa ctttgtatta 360  
 tccttttttg gtttctatgc ccaatgcaat gcactctaga ataaaatata tctactgactg 420  
 gaacagaagc ctaagaatcc catgaactca tggttgttta tcatttgaat gctgttctca 480  
 atgccaacca cacccatggg gagggcgcta gcaaaaatga cacctgagag gatga 535

<210> 29310  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009e02d1

<400> 29310

cctactccaa tgaacatgac aatttcatat attattatta tacttcacaa tcagcatttc 60  
 tttgttcaag actgataata accattaaat tattgtcatt gtaacaatcg gaaaacgagg 120  
 gaaaggaata gaagaaaaca atgaacaacc cttgccagtt agttgcacca accaacaagg 180

caccaaccat agtaccaatc aaaaggtaaa aagagagaga gaccaaatacc tactaagaaa 240  
 agcataactg ttcctttcca tccaaagga gaaaacatgc aggttttgct catggcttcc 300  
 acagaatggt tgtgtctgca atcatggaag taaccacgta tgggtccatg ttggaagctg 360  
 gccttctgtc ctcaaaatat cccttcctg ctttctctgt gtctctccca accctaacag 420  
 aagctccacg gtttgcaact ccccataaga aggtgttgat gtc 463

<210> 29311  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009e04d1

<400> 29311

acaaaaaag acaaaagcca aaaatatatt aagaaggatt ctttgtacgc aatacataat 60  
 catttctcaa tcaaattaaa taaataacac actagtcat catctttttg gttccctagc 120  
 gatttacata agccagcatc aggaacttta tttatcgcaa cactaacaat acaaataaaa 180  
 aaaatcacta aaaaggaagg aatagcgatc ggaagttaat ccccccccat gcacgtacaa 240  
 ttagaaccac actctgatca atagaatttg aagaagaaaa aatggaaagc cacaactaga 300  
 gcaaaccga agcaaaagaa gatttaagat gatatgttat acttatagta taagcttagt 360  
 aggacattg gaaatcacgt ggggctttcc ttgagcaaac attgagaagc aagctgagtg 420  
 agatcggaag gttgaggttg atgccccaaa tgtttgctct gagagcagtg caaaggcaca 480  
 ctgcag 486

<210> 29312  
 <211> 550  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400009e05d1

<400> 29312

attcaaaaact acagtcaatt aaattaaaac ttgaaacaat caaaatccat acagagacat 60  
 accaccgtct atcaaaacca aaagtaaagc acagaaccaa caaaggtaaa taacaatgtc 120

tctaaaacat ccataaaacc aaaactagca aatcaagcat ccaccctttc ctctccaag 180  
 attagagtct tccctgttgg ttttgccaat agatctgtgt actcttggaa tggagatttg 240  
 gagaagcgag tctccttcca gaattctggt gtcaggaatc cataggtttt catcaagcaa 300  
 tcaaaagtag cctgtaaata atacaaagca tcatcattat tatgggtact aaaaacaaca 360  
 tcatagcaat tctttcatga acattagcct ctccaccaa ggatcatgca cacaaataca 420  
 cattagcctc tctaacaaaa gatcatccac ataaacacac atacacaggt aacaaatcac 480  
 acaagtgatg atacantgtg aatgccaata attgcagcaa aaacaccata gactaacaca 540  
 tattaagtaa 550

<210> 29313  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009e07d1

<400> 29313

aacctgatgt gctctttata ctcatgatca aggtgtatat acaccctaatt tggggatact 60  
 gactgcagtt agagcgccat gctatggatg tgaatagttg aatgcaccag ctaagctttt 120  
 gaaactcata ggcggtctga gagattgatc aataagcgga ggcagaacta gggcttggga 180  
 acctatatat tgatgacctt ccacttctag gtaaagccaa ctatgttttg agatgtaact 240  
 gagagcccgga agctgatctc tggggttctt atgacaggcc aatttaggta ttagcctgtg 300  
 gaagatactt gggttcacia ttggattcaa aggct 335

<210> 29314  
 <211> 522  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400009f01d1

<400> 29314

gaaatgaaat caatatgcct tccttgattt ttattaagga caagagagtg caattatggc 60  
 agcttaatcc aatccataag tccaagtga attacatacc atgcctatta acagcactgt 120  
 aagaacaat gttcaaaatc cactgagtca gaaggccata agaataccgc tcatgacaaa 180



ctgaacaaga tgactatgat gaggaagcag catctgatgt tttgtcactt tccttgcgta 240  
 ggctgttttc tctgttataa gcagacttag caccttgaaa gatagttcct aactttttca 300  
 atgctttggc tcgagacttc agaacatctt tggaggcact tggatcttta agaacagctt 360  
 ggcaaacacg tgacagagtt gattcaatat caataacatt gatctgccat agagaattaa 420  
 tcatggcatc cttcttatct tcaatagctt tgactatgct ntcttctttg gtttctcctg 480  
 gtttagcttc ttgagttctt cttgtatttg aatgagggac ac 522

<210> 29315  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009f04d1

<400> 29315

attcaatcca gagactttac ctcttcatct aaatatgaaa ataaataggt atacatgctc 60  
 acaaaaatta tggtgaaaag gacataagat gagtttatac ttgagtgcta cggtttacat 120  
 ttgtatcttg caagctttat taagctatac aattccatgt acagatggaa gctcaaccta 180  
 atggctttgt gtataaaact gccctttgca aactaataaa ggtattggaa gaaactacca 240  
 tgcagcaaag aatcctgaat ttcaaatgat catatttgta accagcttca aaccctgatg 300  
 atccggtgac atattgttta ttaagcattg agtagcattt gcaagattat gtcattccat 360  
 gagtcaattg gtcttggaac acaccaatgt agacaatcat tctgaacttt ggcattcttg 420  
 gcttttgcaa atggctgaaa ctttctgtaa ggtccaggat gtccatctgg tctcagcagt 480  
 gaaaggagag ttgtgtccaa aagt 504

<210> 29316  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009f05d1

<400> 29316

aaaacacaaa ttcttgcttc ttaatttcat gtgttggaac gtgtgaaccc gtgtttgcat 60  
 cactgcaaat gggttccaga acacacattg tcttctctt tccaatacaa cgaaactgct 120

gaaacatgat tgacattgac taattaaaaa tattttttaca ctgacataat aaaagctgaa 180  
 atgaaagggtt gaatgaattt catcaatcct gctttatttc ttcttttttt tattagggtta 240  
 ggggttaatt ttaattacaa tccaacatta ggattgcctg aaccagctgc ggcaactccc 300  
 atcccaccaa caccatcaga tgtagctgcc attgcctcat ggtctcctga atctttaaca 360  
 tctttaacat ccaattcact tacaagttca tcaattttcc taaattgata tggccatctt 420  
 gcattataga gaaactggcg aagatcaaac ctattatcct ctggtgaata actcttagca 480  
 tggta 485

<210> 29317  
 <211> 535  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009g01d1

<400> 29317

ataaaatatt aacagcatta gccaccaca tgtaaaaaac acaaatgcat ccaattgttc 60  
 taggttcata ataataacca aaaaataaat atgaaaatgg agagtaacaa agcatggtga 120  
 gacacagcta accgaagcta ctaaaaacaa ggaacaaagc aaacaagtag gataactagg 180  
 gagcagaagt agtaccagtt aaagcaaaca agaaaaacag aactcaact aacaaaagct 240  
 aataaccca aatcaagatg gacctaatgg aaatagaatt ctcatcaaaa cttatctgca 300  
 ctgtccctct tctctttata tgcttttcaa atttaggtta tggttgaatg gtcctcactt 360  
 ggccatcatg actttgacga actcctcata gttgatctgt ccatcaccat cgacgtcggc 420  
 ctgcgcatc atctcatcaa cctcctcatc ggtcagcttc tccccaagat ttgtcatgac 480  
 atggcggagc tcagctgcag agatgaaacc attctgatcc ttgtogaaca cacgg 535

<210> 29318  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009g05d1

<400> 29318

gtccactcaa atacttggat atatagacaa tgaaattttc aacagaccgg gcaaaatagc 60

gcaatcagca aagtgcaaac ttaacatttg caaatagtat cccacatata aaatggacga 120  
 atatgttatt gaggagttaa ttaaaactaa gagcagagca taggctaccc caatttcaag 180  
 ccgaaagaag agcacaagta aaccatctt gcacaagttg attaaccgca ttcctgaact 240  
 tataatagtc ctcaaccttg ttgtaaacct gacgagaaat tcgtgcatac gcagtaacag 300  
 agccatcttc cccaccacga aaataaattg gtacttcaac atcaaattca tccctcaaac 360  
 gggtcctaag cttttgagca tcagagtcac tccaatacc caaagaagga ggcaaaccga 420  
 ccatcaccat gctagcactc atatgcgaag gactctcaag gtgggtcccc caagccttca 480  
 ccaacatctc ccccatctca acaacc 506

<210> 29319  
 <211> 533  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400009h01d1  
 <400> 29319

cacatgcaaa gtgataattc tattctgttg gtttccaaat ggtacaaggc acaccaaaaa 60  
 tacatgggtg atctttatctt ttgtgacaaa gaaaacatca tcaaaacatc tcctcgatcg 120  
 ccgcctaatac aaggagctag gtagtcgcat ggtatggtag aaaactctaa gtttccctat 180  
 agatagtgtg caacatgcat ggaatacaag gatgaaaaga atacatggat agtgtacatt 240  
 ttacatgctc cttcccacaa agctttctac ttaatgggct tgagagcttg atgaccatag 300  
 tggtgcaagt tgtacatttc attggcaatg ctgcagctcc agcacttgct gctcatcatg 360  
 tggaggcatg attctcttgg aacaccctg cttgacctt gtgggaggaa tggcttatca 420  
 aaataaggca tcaattgagc tcttggaacc atttccttcc tcagcaaacg aacctcttcc 480  
 tcttcaatca acttttgcag cttctcctct tggttctttt gcagctccat gat 533

<210> 29320  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400009h02d1  
 <400> 29320

attcaaaca agtgccataa ttttaacccg gaaattaata aatttacata caagtgagga 60  
gataagctta ggattcccca aggaaactga caaacctac ggtcccgatt gcttaataat 120  
cgtgaatggg acccaatcta cggacaatat caatccactc agtggaaagt ccaaagccaa 180  
atttaccttg ttattattac catcaccgcg tgctcatgga tgccattcct gtacacgtgt 240  
cacctccac ccgtatacgg cgagtcaaac cagattcggt cactcaccca aattctgcca 300  
tactagtttc aataacacaa attggggatt tcacaacctt aaattataca attagtaatt 360  
ttcttttttg aacaacaaca atactagcta gctagcaagc tactagcaat agcttagcgt 420  
agcatatata aaaattaatc ataccagag agcgccgact tggaccagtt tggggatc 478

<210> 29321  
<211> 514  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400009h04d1  
<400> 29321

aatctaata ggatcataag atcagatttc ttccatttta ctgttgaata ataatgtaca 60  
gaacagaccc agtagtagag tatacactga caacaatata tcagagccca aaaaccatgc 120  
atggactctc tacaaaacct tgacttcccc attcgtaaat gcagaatcac aaaacagtgtt 180  
cccatctact gtacagcaat gtctaacctc ccaaaaaaga aaaatatgca agttaagtgtt 240  
tgtatcaatt tagccctttc tctggcatct atatggtggt ctgattccag aagatgcatt 300  
tgccattgca cgaactgtca tttctagtat cttaagtgca ggagagaaac ccctcatgcg 360  
ttgatgcttt aaatatgtta catacaacaa gttcctcttt tcgaacaagt gagcatttgt 420  
tagttgattg cttgatatga acaaattgtc agaaagttta atgctgagac attaataaac 480  
tccataagcc cgagcagaag ccattgcaaaa tgca 514

<210> 29322  
<211> 528  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400009h05d1  
<400> 29322

gataaacgag ttatttgcca atctttacca taaagaacac tacaaataaa atttggcaac 60  
 agctcaacac tatcaatatac aaaatttaca taatgactgc cataaagaca agcaatattc 120  
 tttcaatact catcatcatt tgagactaat taagcttgct tgattcctag aattgaaaag 180  
 agaaaagaat attttgttgt tgggcttatg atatctagtt gggaccccag cagcttaagt 240  
 acatgacagt tctcaaagac tcttctgatt gatttgcctt ctcatgtttt agtggtgtgg 300  
 atatcatagc agaagaagaa agcttgtag cctgagagaa tgagccaaca tgggttttga 360  
 gatggtgttg agctgatctt aaggcatgat tccacctgca tatgccttgg tctttcaagg 420  
 cctccacaat tccaacactt gctgccacac tccatgctct aattcctgaa ctcatcttgt 480  
 tattgtgatg atgatcctgt aatcttttag atgactttat gtgacaga 528

<210> 29323  
 <211> 565  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400009h06d1

<400> 29323

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 ctgaaactcg ctgcgcttaa caaaaatgta atcagggggt cgcacaaaca caacacatta 120  
 aaacacagat aaataaaagc aattttgcca ccgtcgatca agaaccagc tctgggaaca 180  
 acagttgcga gatgatggtg gagacttcaa actttgtccg aaaaacaagc tacctagaaa 240  
 agaagacaca agagtacaga aaagaaacca acatttattg taaccaacat cccctgatga 300  
 accagccgc acgattcact tcttcttctg ggcagccttg gtgaccttgg ctccggtagg 360  
 atccttcttc tcaacgttct tgatgactcc cacagcaaca gtttgacgca tgttctaac 420  
 agcaaacta ccaagtggag gatactcgga gaaagttcac aaccatgggt ttggtggaat 480  
 catcttaaca aaccgcatca ccgtcttcaa aacttggtc cttctaagct ctatgcgat 540  
 cgctgcaatt tgtcatgagt tcaca 565

<210> 29324  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400010a01d1

<400> 29324

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aatgttaaaa taattcttaa gcatttgcca caagaaaatg agaaatatat agcatacatc   60
tttgaagaaa taaagtgtaa cttagggact agcaaagaat gtacatgtct tatccaaaag  120
tgtacatgca tatgatataa tgcattgtct atgateatcc ctttttcttt tatgtagagg  180
acactgatac ttttgttcag ggacaatggg agatttagta aagaaactaa aattgccaat  240
ggccataaag tttaatcttc cccttcctct ctattccttt ggacagcacc aaaatgcttt  300
actagtatgt ctaccacaat aggcaccaag ttcttgcaag gcacaccctt cttatacacc  360
tcagctagat gtgaatcact tccaattctc cctcccagga aaatatccac accttcagtg  420
gccttaccat tctcatcctt agccatgcac cccatgaaac caatgtcagc aacttgacc  480
tggccacaag tggtggggca gccagtcaa tgcattctca caggcctagt caca       534

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<210> 29325

<211> 612

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400010b01d1

<400> 29325

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gaccataaag aatttcaaaa tattctgagg tcatgacata ctcataattt aaaacaaact   60
ctacacaacc ttggaatctt gcttttgaaa tttgaaaat gggaaccaa tgtgtctaga  120
agtttgaaga aaaaatgaaa gtaaaatccc agcaaaagaa tccacaaaac aaaatacatt  180
attcaaagat ataacaaatg taaggtaaaa gcaaggctgt ctgccatgcc cttttttgta  240
caaaagtggc catgcagccc aaaggaagaa gccatgggag aaattatctt caagtatcgt  300
ctacttgtga atgaaataca aagctcgga atgttgtggt gatgtccttg aggtattgaa  360
gggtcatggt cttcaaaagt gacggatggc gcaaaacaag gtttctccac tcttccttgt  420
caattttgcc atcatgcttt gtatctgctt cctcgaaggc cttgtcaatt atactttcta  480
taacgtcatc tgatagggtc atgccagatt cagcaagagt agcaactacc aattgcttca  540
cctctggtct ttcaataaaa ccctgctgct tgagatcata tagttgaaag gaaaaatcga  600
tcttatcatc aa                                     612

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002220-ETFE60

<210> 29326  
<211> 540  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400010d01d1

<400> 29326

cgtgttgtct tattttactt gtggcaagtt ttgccaatat ttacatcaca aaaaagaaaa 60  
agatagacac atcacgctct tcacatatca aatctcactt ttcacacgaa ttgactgggc 120  
aaaaaagcaa aaaaagaaaa agagagacct ctgaagataa attacggtgc cactttcatc 180  
ataatccaca cctaccaaca ggtaccgtgg gtaaaagcac gctaaaacaa gacaactgga 240  
ccaccaattg gtatggcatt tcagcttcat aatcgcttcc tcaattgaga ccctttgccc 300  
actgctttca tattttgaga atctctgaaa cagacaaagt gcacgagagt gctaccattt 360  
gggtagacag caaaaacact tgtccctatt ttcttatggc acagagaaca catgctatca 420  
ccagttatct tcacaacttc tttcctctga ctatagagtt catctttcac ctgaagggtc 480  
tcactttgtc tcaagctctt taccaccgaa caatttcctg acatttcact agattttctc 540

<210> 29327  
<211> 501  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400010e01d1

<400> 29327

gctcaaggcg aggcacgaga taaccacttt ttacatata tatatagaga gagagaatac 60  
gaagcacact gatcacagga tgatgctctc ttttaagtagg gaagcagatc ttatcagtac 120  
acataggtag gttgaaattc tagctctagc aatctagcta gagaaggtag tacttgcaca 180  
acacacagca catgataatt tattttatac acaatctcat tctcatgggtg ctcaagatgc 240  
atggactaat taagcaacaa tgttggtctg ataggcagtg tccacagata aattgggtac 300  
ccataaaatg gcctcgcttc caaggaaatg gcaaacaggg ttagttccag gatcaactcc 360  
cataagttga tgaagcattt gatgattcat tccagaagta tttgagtggc aaatagcaag 420  
tgcctgagtt ttggttccat caccagccac caatggaacc atgaaagctg ttgttcacgg 480

acttcatggc agtaaaatac t

501

<210> 29328  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400010h01d1  
 <400> 29328

aacataaatg gtttggtttc atttaatctc ccatcaaaga atgttgattg cataacatag 60  
 ttgtatattt gtgagtttaa aattcttaca catgcaaagt ggagtataac aagagattgg 120  
 ttatgcagtt ctatgacagc acattttgag ggaataaaaa acaaaatagt cccaaatgaa 180  
 aagataggaa tatatattta gcattaatga gtattatact ttgcacaagc catatcattt 240  
 ttagtataaa gtatattcaa cgaatgggat catctagatc agttccaaac caacagagaa 300  
 attctgacac tgggtccacta gtgaaatatt ataaaaaaaa aatctaacat gaaataggta 360  
 accaaatgaa atggatcgga gtcactagtg gttaggaaga gcagcaccca cctttctgtg 420  
 caactggctg tcccctgatc tgcactgttg gaggccttgc attgtttgca ggttggcttg 480  
 ccattctatc ct 492

<210> 29329  
 <211> 388  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400011a01d1  
 <400> 29329

gaaattaata gttggcattt ttaatcaatc caattcccag cacacaggaa aaggcccaa 60  
 agaccatttt taccctatg tgaaaagggt tctccttttt tttggaaacc aatttaaaaa 120  
 attcaagggt taaattaaac ctttatatac acgtgtttcc attacacgcg cggacaccag 180  
 ccattggagt cctgttttagt ttggccaaaa cttgcttatg gccaaaaaag ggaaaaaaa 240  
 ttttttaaca gctcccgcaa agaaaaaaga aaaatcccac gtaccactt aattggcacg 300  
 caccaaaacc gactgggcac gtgccaaaaa aaaaagtcta ctattttag ccaaacttca 360  
 acttattggc cttcaattgg tctttata 388



<210> 29330  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011a04d1

<400> 29330

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gggggaccct ttgaatgtaa aaatactaaa aaaatgacta cctaactctac ataactgagt   60
atcacgctgc ttctggttgc aaatcatgca ccaagggctg cttagattgt gccataggaa  120
gagacctgat cgtaacttcc tctgggggct tataacaaaa tttatagtcc tattatcata  180
cataccattt ggcttccttg ataggaaact acaatccctg ctctcaacca taatgggaag  240
cttcagtaat cattgtcttc atctttcatt attgtgtttg gaccatcatt gaaacccgtg  300
ctaggggcaa gctcattcaa atcaaggaag cgtctctttc ctgtgctgct ctcaacttcc  360
tcctgaccag gactgcttaa tttttcagga ggctggtttt gttcattctc ttctactgct  420
ggatatggaa caggctcatt tactttcttt tcttgttctt cattatcact gccatctgaa  480
tcttcacttt ccatcatgta ttcaccattc tcaactgggat ctgagtgatc agctgatgaa  540
atagacttct ca                                                         552

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<210> 29331  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011a05d1

<400> 29331

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agcaagcaac tttgaattaa aatttaattg gttaacttcc cgcacttgca aatcacccat   60
aattggaata tctaataagt tgatcgggtg aagcctaata aattctactt ggaagtgatt  120
tgggggagtc aagccatggg cccccattg atttgcctct ttgctctata cttttttttg  180
ggaatgcaaa aaagacatga gtttgactgg cttgggatag catttcaaag gctttaaatc  240
ttacattttc tggactggca ccgggtttta ttattggggc ttgaattggg gtttttcctt  300
taagcatgct cactactgat gacatacatg ggctaagagt gggaaaaggg ttggggcaca  360
agagtgccta cagcagcatt ctgatggccc tttctggggg gttctttgaa ccaagacttg  420

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gatccacccg ctccaaaagg gttcctt

447

<210> 29332  
<211> 484  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400011a07d1

<400> 29332

atgaaactgg gatatgcaag cgctattgcg cgccttggac caaaacattt aattttcata 60  
tattacaaca aagaacagac tttagaaatc tgccaagact aaataacggt accagccaaa 120  
acctaaaggg gaaattttatc acgcagttat aactgcatta tgcaaacaaa agataaaaaac 180  
catgcagaaa ttatagaacc ttactacca taaattgcac tactgggtgag cacattgcac 240  
tcggtgacca gatggctcat catcatcttc atcatatgcc ttgcgatatt gctgatgctg 300  
ctttcgtctc atctcctcct taaagggtgac atcatgcaaa ggggtctcct tacaatcatc 360  
cagctccatg gctgacacat gcttgctgct cttttgaggt aacacctttt ccaggaactg 420  
gcattggtca ggggaaagaa accctgagtc tgggaaatca acattaaact ggatgtaaag 480  
gcga 484

<210> 29333  
<211> 459  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400011a08d1

<400> 29333

gaagacaata aagattttga ttatattgaa aacagcatca taatgacaat gataatgata 60  
ataataatcc cactataatt gtataacatc taatttgttt ttgcataatcc ccaaacagca 120  
gagagcatga accaatgcaa aattgtaccc tttttgatgt ctttgatatc ccatttacag 180  
aattaaacta agcagcagcg gactacttgg agtccaacca ccgcaaattg aattccccct 240  
agcaccagca ccatgtacag gtaacacaac aacaaccaa aaataaaaaac ctaaaaaaag 300  
ctgagctaaa tggacatgtc tgtgcccaaa ctcaccttac cttttcaa at tccctttcag 360  
cgaggggctag gaaccggcac ggtcggcgaa agcggaagct gcggaaaccc taactgacca 420

gaagttgggg aaaacagaag ccccggcgac agaagagg

459

<210> 29334

<211> 397

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400011a09d1

<400> 29334

gaggatggga ggcaagaggg ggaccaccgc tgggaaaaaa aacacaaaaa aaaaaaaaac 60

aagaaggaaa aaaaacaaaa aaaaaataat aaccaccatt aacaaaataa aaagctgcaa 120

aaaaaaaaaa aaaaggtgga aataaaagac gcaaaaaaaaa acgaggaaaa aaaaaaagag 180

ggaagcaaaa ttagaagaag aattgagagg agaagtaggg aggaaaaaca gaagaccaca 240

aaaggggggc cccaacaag gaggggggga acaacttagg gatcaaaaga gggaacaaca 300

agaggggggg gcaataaagg gggcaacaag aataagaaca ttaagctgga cgcgaggttc 360

ctgcggggaa agatgacccc tcctaaaaag aagcccc 397

<210> 29335

<211> 449

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400011a12d1

<400> 29335

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ccagctagtt ttcgttaaaa cacaagtact cctacattta cgactagtta gcttatgttt 120

gtgtagctgt tatcaatgta atttccatct ttccaatgca caaaacgaaa aagacgcagt 180

tttgttactt tcggaatgag agaaaatctg ttgcaacgta cgtgtactca aacatgccct 240

tttagttagc cttgggcggc atcgttttca atatggacac taacacttga gccatccatt 300

attaatccat cttcatgcgc cacccttctg ctagatccct tttcggttcg ttttctcttt 360

gacatgatgt ttttttcttc ctcttcttct ctttcattga caaaggtaa gaatgatcta 420

agacgagtat agtatgatga gcatccctc 449

<210> 29336  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011b01d1

<400> 29336

gcataacgcg gggttcagga gttctttgca ataaaagtgc cgtttaaaca gggctaattc 60  
 atacccttca tcacgaaact gaaatgacaa acattgattc aaaacctgcc ttaaaattaa 120  
 cataatatca cagaaagatc gagctatagg tgacaaaact gataacacac tcctaaagtg 180  
 aactcaatct aactaaagaa tagcctggga cttgttaagg atcactccct cgtacttcac 240  
 ctggaaccac ttcatagcat cctcctttgt gactcgggtgc tgaattccaa cacgggactt 300  
 gcatcttcgg cgacgtccaa cacgatagcc aggtcgctcc agaacaacaa agaaatccat 360  
 tccataaata ccagttgaag gatcatactt gattcccaaa tcaatatgct cctgaatacc 420  
 aaagccgaag caaccagtat cactgaagtt ccttctgaga gttcatattc cttcaccttc 480  
 aaaccac 487

<210> 29337  
 <211> 501  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011b07d1

<400> 29337

aaagcataaa atttctttta aaattcactt taaacctcgt ttatcgttgg gtcgacatta 60  
 attctaggga ggggctttcc ccattaactt gtgatgaaat ttgccatatg ctcatcttc 120  
 agctaattgc taccaaataa attggaatag ggtacattgt agttcaaggg tgtgtgtcca 180  
 gcacatagat gaaaaataat tcaagcattc gagctttctc tggaatggtt gtgatattgc 240  
 agtgaagcct ctcttactgt cttgagagcc ttgtcatatg ctataaacc cataaaatag 300  
 aattcataac catccactgt gacaagctgc atgtattctt ctgcagggtt aaatctattt 360  
 gagaaaggac taaccgtgct taactgatcg agttgcaaca cgacctata atgcacactc 420  
 tggttttgct gcagcgagag tggataattg cacagtggat agtcgctgca aaaggctact 480  
 cttttagttg atacatatat t 501

<210> 29338  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011b10d1

<400> 29338

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 cagacttttag aaatctgcca agactaaata acgttaccag ccaaaaccta aagggtaaat 120  
 ttatcacgca gttataactg cattatgcaa aaaaaagata aaaaccatgc agaaattata 180  
 gaacctctac taccataaat tgcactactg ttgagcacat tgcactcggt gaccagatgg 240  
 ctcatcatca tcttcatcat atgcctcgcg atattgctgt tgctgctttc gtctcatctc 300  
 ctecttaaag ttgacatcat gcaaagtggg ctctcacia tcatccagct ccatgtctga 360  
 cacatgcttg ctgctctttt gaggtaacac cttttccagt aactggcatt ggtcagggga 420  
 aagaaaccct gagtctggga aatcaacatt aaactggatg taaaggcgac cctttatgaa 480  
 t 481

<210> 29339  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011b12d1

<400> 29339

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 agatctacac tttcacgcaa tcgatatttg tttccttaat ttgatttagc attcacaaaa 120  
 aaaaaaaaac tagggcataa ttttggtttg attaaacata aggggctatg gattatgctt 180  
 taaagaaaca ttaacacata gcatgttcac aatttgatat atcatgaaac gcaatagtgt 240  
 tttagttgac agacagacat gtggagatca ttatgcacgt aagaagcgct ttttcagtct 300  
 tcgaaagttt tgactcaat ggtctccgga ttgtccttgc agtaggtctc gagcgggtcg 360  
 gagaccttc ccttttgctt gtatttggcg tg 392

<210> 29340  
 <211> 494  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011c01d1

<400> 29340

aacacaaaagc ctcattcaca gcacggtggt gtctttcaag aaaacaaagt tacattccct 60  
 tccctgttgc acaggtttga ccaaatacac tgaattacta aaattgacat aaaaggaaca 120  
 ctaggaaaac aaaaagcaaa attccaaacg attattcttg gaagagtcaa accacaataa 180  
 tacttatcaa caagaaattc ggttggtgta ccataatac cgattcctac tcgcactagt 240  
 ctcttcaaac aacaccaact tcgattgatc agtagctgta gttcgaaaca tggaggctct 300  
 ctgaggcacc atcagcaagc tgtgagttac ccttgtaggt tcccagagtt gcctctgagt 360  
 tagccttggc tcttaccaaa agggcttcct gagccttctt cacattctct tcttttcgcg 420  
 cccatgcctt aagggtgctc tgctgaagtg cccttccaag gagaaagaga gtgaccatgg 480  
 cttcttccca ttga 494

<210> 29341  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011c05d1

<400> 29341

aactatgata cgatattgat atttaattct tttggcgaaa cgagctcaat acatcatatt 60  
 aaaacataaa aagcagcacc taaaccagaa cagcaaaca gttcaaggga gaaattgaac 120  
 ataacagaca tgacatacaa gaacacttga aaaaagacac gcttaaaaca agaacacttg 180  
 aaaaaaaaca cgcttaaaaa ccaccgcgaa ggcgaaggac gagatgcaag ggggattcct 240  
 tctgaatatt ggaatctgcc aaggtacgac cattttccag ttgcttccca gcaaaaataa 300  
 gcctctgctg atcaggtgga atgccctcct tggcctgaat ctttgccttc acattatcaa 360  
 tggatatcaga actttcaacc tccaaagtta tggtttttcc agtcaaagtc ttaacaaaga 420  
 tttgcatgcc accacgaagc c 441

<210> 29342  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011c06d1

<400> 29342

agttaaaaa aaaccatgtg attatttcat tagccaaaac taaaaccac agtatgcaca 60  
 caaaaaaca attacaaacc acactatgtt aaagccacag ttgcaggcac gcttgtaaaa 120  
 cttagttatt ccactacaca ctcttgaaga gtaagtgggt agctttaggc tatggagaac 180  
 atgtactaat gtgcctcact cttttaacac aaaccttaaa tcacagacag aagcatgtag 240  
 attgtagtgg agcttatgca tgttcatgga atgggataga caactatatt tgcagttgct 300  
 ctgtttgttt ccagatgggc aaacgcttca acagtctgag aaaatggaaa cgggctcttc 360  
 gggtaagta ttggcttcag cttaccactc taaaatagg ggtttagttt ctctaagatc 420  
 gccccatcag tagagagtat gaaaaggata gctggatgaa atccaggtgg tactattgtc 480  
 acaacttt 488

<210> 29343  
 <211> 562  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011c07d1

<400> 29343

ctctatcaat agacaaagtt aacaaaatct tattaatatg ttggtagaca aaagcacaag 60  
 agaaaaatat tgatacaaaa cagtaaatac cactgccata tatatgcagg cagcagatcc 120  
 agcctagaat ttcaagaaag gttaaaactaa cagtgcagtc tttgcaattt gcaataatat 180  
 acattataca aacaatcctc cacctttaat tatgtcagta gaaatgttta aatttaaaac 240  
 aacttgatca agcatgaaat tctggttaag cccgtctttt tctatcatct tctcgtcat 300  
 catcagaatc accactctca cgaaaccgtg gatttttttc cggctctggat tctggtcag 360  
 tgttctccg agattcatga tcagaatgtc tttttgagga ctcgtgtatg tggcgtcat 420  
 catctcgggtg tctcttcta tagtaatctc taccatgtcg atgggaacca ccatgaccat 480  
 gacctccacc atgtctacca taggaagttg gaataactgg tggaaaagaa cccatagacc 540

agtgccataa tctacaagct gg

562

<210> 29344  
<211> 535  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400011c08d1

<400> 29344

ggattgcaat gatcatttat taaggttcaa aactggctat gtttcaggcc acttttgcag 60  
ggtgcagttg aagacagcat ctatatacaa acatatacac atccttccga atacactacc 120  
tataaggact ttgacaattt caggaacaaa tggcctgagc aaattccata taatgatatg 180  
cttaacaagc tgtttaagtt taacctactg atccctcaag cttcaagctc atgagttggc 240  
tcacctcaga accaaattca tcaggaagct cattaaagac atcacggcaa aatccagaga 300  
tcatagcagc cattgctttt tcatagtcta ttcccctttg ctgaaaataa aacaattgat 360  
cttcaccaat tttggacgta ctagcttcat gttcgattct tgctgttgga tttttcacct 420  
gaatgtaagg ataggtatth gcagctgcat tgtcaccaat gagcatagag tcacactgag 480  
aggagtttcg ggcattgctg gccttgga gaacctgaac cagccctcta taaca 535

<210> 29345  
<211> 363  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400011c10d1

<400> 29345

aaaaggaagg ccaaaccaac actgaaaaaa cccgggtcgg aaaccagcgg ggtaaaactt 60  
taaggaacat ttatgaacag ttcccaaaaa gaagattcct ttaataaccc aaaaagaaaa 120  
aggggatggg ggacaaaaag ttggccggga tgaaacattt ttttgggggt ttaccaaagg 180  
taaaaccttt tggtataacc gggaccgcat tttttataaa gggccccagg gccaaccagg 240  
ccctcgggta ggttaacttc tttatgggcc ttgaaaactt tcgggaccg gcaaaaaatt 300  
aggggtaaaa tcaggaaaaa agcctggtca tgccgggggt ttttttgaac ctgggttgga 360  
aca 363



<210> 29346  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011c11d1

<400> 29346

gaataataaa gaacagatca cgcaaaagtg cagtaatcgc ggtgcacggt gcacctgtaa 60  
 agatctacac tttcacgcaa tcgatatttg tttccttaat ttgatttagc tttcacaaaa 120  
 aaaaaaaaaac tagggcataa ttttggtttg attaaacata aggggctatg gattatgctt 180  
 taaagaaaca ttaacacata gcatgttcac aatttgatat atcatgaaac gcaatagtgt 240  
 tttagttgac agacagacat gtggagatca ttatgcacgt aagaagcgct ttttcagtct 300  
 tcgaaagttt tgcactcaat ggtcttcgga ttgtccttgc agtaggtcta aagcgggtcg 360  
 gagtcctttt ccttttgctt gtatttggcg tggc 394

<210> 29347  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011d05d1

<400> 29347

cagagtaata cattgtgtag agtatttggt ttatatagtt tgtaattacg ggcttgtcag 60  
 aatgtgtatg gaccagccca tcagcacaag ttcataatat acaatgttca ctattgtttt 120  
 aatccgtggt cttcctgttg gatttcataa cctattacac aactgattga tagcatgggc 180  
 taaacaaact gcagtattta aatatggcac cattttcttt ccgtgagtaa tgtagctgct 240  
 actgggtttta tcaacaagaa caacattaac ctacatagc tccatctttg cttgaactct 300  
 gtcctatgtc agtctgatct tgccatggcc acttcagatt agaagatgag gagcactgct 360  
 gtggaactga aaatgaatat gagcttgtagc tggcactctg cttcttacat gatgaagaat 420  
 cagctgtgga gcaaagtgtc tgggtcaatgc ttgacatgcc agtatctttg ttatgatttt 480  
 gagagt 486

<210> 29348  
 <211> 553  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011d06d1

<400> 29348

```

aatggaacaa acatgaatca cccaatacaa ggagtgtcat ttatacactg tgtgctaaca   60
ttgttgatta aattaccatg gctaaacagc acagcacagt cacttgaaag tgctaaacat  120
gaaataagat tgcatacagga aatcaatggt actttattta cagcgacagg gaaactagaa  180
aggaagggga atttcccccc ttatccataa taagctcaca tgtggtgagg tgaattaaca  240
gaactagaag aagaacatca tgtacagata aaatgcaaag ttaagaacag gacatgcatg  300
caaagctagg ggtctgcttt accaacaacc tgttcacac tagaatcata ttcattctca  360
ctcatctcct catcactgga tttctcttct gtggcttccc ctatgtcttc gggtttagca  420
tacttctcac agtactcttt aaccctttgt tcgtaacttg gtcggtcacg catcattaaa  480
gcggcagctt ctcttttcaa ggggtctgat ggattgggat acagcagaag tgaggtagaa  540
cacctcaaca cat                                                    553

```

<210> 29349  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011d07d1

<400> 29349

```

atgatactgc aactggcaac atttataaga gctcttgaac ttttgttatt gatacattcc   60
acaatacatg gggctgtaag cctgttatag attctatgga ttaagttcct cgattcattt  120
atacattgcc aatgtatgca tgcagaccga ctttatgcaa gttgcattgc cttttcccgt  180
ttcaagtcaa aaaccctgat gagtgcattt tcaacaacct tgtctgggtg ggatgcacca  240
aatgttacac caattggtat tggaccctct ggaagccagt tttctttctc caccagctct  300
ccatgggtca acttgcattg tattttgatt cctggaccaa ttctttgctc actgtcaatc  360
caataagaag gaattccacg ttgctgcgct atttcttgca cgtgtgatgt attgctagag  420
tttcattcac caactac                                                    437

```

<210> 29350  
 <211> 303  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011d09d1

<400> 29350

aaggggttagg gttatTTTTat ttttattgaa agttgaaaca aacaaagctg aaaaaagaac 60  
 acacgggaccc agcaacagaa aaacaaggac gataagacga aactaaagaa cgcccatgaa 120  
 aaaggggata agaaaaagag gaaagcaaac aacacatgta caaaaacaaa acagaaccgc 180  
 aaactaacat cgactgaaat acaagagaga agcacctgaa agcggatgag agccacagag 240  
 agagcaagac tcacgcgaaa aacaaccaat agaaaggaag ccagaaaaaa caaatactag 300  
 aga 303

<210> 29351  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011d10d1

<400> 29351

aaaaatgggc aaccggtcaa cccttccaaa atgccaaatt tacaaaaggc cgggcaaaaa 60  
 gacacgcatt ttttttataa caccacaat cggggggggc taaaaaagct tgctggcatc 120  
 ccaaatgga aaagaaaaaa aaattttttg gggggggggc taagaaatct agggggggccc 180  
 cccgcaggtt aaggccagga ccgtttttta aaacccttg gggggattgg ccctctcgag 240  
 ggtcaggggg ggggatttca taccagaaaa aaaaagggtg gtaccctggg aaaatggccc 300  
 cacctgggtc tagggaaggg gtggccctct cccaggggg ttatcccccc cgtaaaaccc 360  
 cgg 363

<210> 29352  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011d12d1

<400> 29352

gtaggaacat taaaaactga tgataagcct aaatcctttg aattattttc agaaagttcg 60  
 tgcaagagac atctatgcct tgaagttgaa tgaactacat ttggaagata tataaaacta 120  
 caatcatgcc accaatacca gaggaacgca aaatcataat gcgaacttct gaactggcat 180  
 gtgattcagc aaaaacagga gctgccaaact tttaatgacc ataaacatgc aggtcttgct 240  
 cggactcagc tggtagccac tgagtcactg actattttgg tctcattctt cagctgtaga 300  
 atcagcaacc aatcaagcta gcggaaaatg cataaagaac caacattgga gacaggctca 360  
 atttgaattc agaaactcgc taacggtgac caacaaggag gcaggttcaa ttgaccatac 420  
 tcaaactgta caacgagaca tactggggat ttataagaga cagtgtaccc ttaaagaact 480  
 atgatgatga 490

<210> 29353

<211> 556

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400011e07d1

<400> 29353

aagtgaagaa aattcatttg catcacagaaa atacaaaggc tataaatcca aatacgtaaa 60  
 agttagaata ccaaggaata aactacaaaa acataaataa ctcaaaaacta ttgaaaattg 120  
 tgctccttgcg ggtgatcact tccctcccg c attatcagca tcagctgcag gatctgaact 180  
 ggcactacct gcttccgtct tggttgtttc atcaatcctc ctactagaat catcgtctaa 240  
 ttcacatcatc atcatgtcat cctctccac atttatatct tccacatcat catcgtcgtc 300  
 attattgttt tcgtcagga tctttctttt cttgggacca tgctccagcc tatgagtatc 360  
 caactctttg tccattgtct cctgtaaatt ctggtcattg ttaactttcc ttgcgttcct 420  
 tgcattctgc catctctcca attccttctc aacattggca agatactgct cccaatctg 480  
 gttctgatac tcggacactt cctctcttct tgcattcttc cattctagaa aagcctcttc 540  
 tttgctcttc tcaagt 556

<210> 29354

<211> 201

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011e10d1

<400> 29354

ggccaaaaac ggggaaaacc cccaacaaaa aagggtgggg ggaaaccca aaaaaacccc 60  
 cattcattgg ggaaaaccgg gggggggaaa aaaaaggggg gggggggcca agaaaatcaa 120  
 caccgcccac aagtcagaga cccacccta aagatgtgca ccggagccta tgcattgcccc 180  
 cggtatggga aaaacaactc t 201

<210> 29355  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011e11d1

<400> 29355

aggcgaatta tagatgtcct aattttattg aaggtagctc atcatgtttt ttttatgctt 60  
 ctcataacag actccattca ctactctat gaacccaac caaccaacca catgatactg 120  
 atattgaaaa ggaaagggga agggtttcga aatgatatcc ttaacaccac aatcccctaa 180  
 acgacgacac gagaaagaaa agaagagaaa aaaaaggcaa aaacgacacc gaaagaaata 240  
 acacagattc agagattaaa gccgcgggtc aacgtcgtct aagagagttg accgcagttg 300  
 gcgatgacaa cgggcttgga ggtcctgccg gagctggatc cgaccttctc gatgtccttg 360  
 acaacgttca atccttcgat gacctgtccg aacacgacat gctttccgtc gagccactct 420  
 gtcttctccg tgcaaataaa gaact 445

<210> 29356  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011e12d1

<400> 29356

aggcacctaa aacaattaaa actttgtgaa cattgagtgt actgcaaaca taaaaaccaa 60  
 ttctggatat aataaattta aacagaaact gactcaaaaa tccctgtgag aaaaaatgct 120

taaactattg gcctcctaac tcgggggacc taatttttgg ccacaacatg aaaatcgaat 180  
 aaaaggaaaa accaaaccaa ggagaaccta caaaggtcca ataccatccg ccaattgcat 240  
 aaaaagtctg gcttccaagg ggacctaacg gagaaactta taacatactc aacttacaaa 300  
 tccattcatt aaactagata tatctattaa aaacccaaag cttcaaatac caaataagtc 360  
 aaccaaactt tactgaaata tggcacagga ctgggtgcat gaagaacttg atcacca 417

<210> 29357  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011f01d1

<400> 29357  
 gggaaaggcc caggggtttt tttatttttg ggggtttccc cccccccctt tctaaaattt 60  
 cccccctgg ggaaccactt ttttttgacc ccctttttcc cccacccta aaaattcccc 120  
 gtcggggccac ccccaaataa aaatcccccg ggggtttacc ggggattttt ttacccccaa 180  
 tgggggaaat taaaaagccc tttttttacc cggggcacca aattcctaaa ccccatTTtg 240  
 cccaaaaaaa accccccctt tcccccttcg ggttttcggcc ggggaacccc tgaaatttcc 300  
 cgaccccccc ggggtttgcc caatttgagg gcaaaaacct tgctttgcaa atccccccaa 360  
 gcctttttct cccccctttt accccggt 388

<210> 29358  
 <211> 480  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011f04d1

<400> 29358  
 aaaaatcagc tcctaaattt agtatgcaca agaacatccc aagatgatga atttgggtact 60  
 gggggcacat gacatgattg tttagagaat ttgataatta ttctcttgat tacatgttaa 120  
 cgttaaacct aaaaatcacg caaaaaaatt gaagccacta atggagggca ttaacttatg 180  
 tttgttttgt ttttgcaatt taaaacaaag gtcctaaagc aaaggacatt agatcatgaa 240  
 attagataag acaagccaac attccaatct gtacacacag aaaaaaagaa gttttgaaag 300

gagttgaaat gaaaccctgc gggaaacaag caaaatctaa tagattttcc tttttcatag 360  
 cttctaacat gctaattcaa ccataaccaa tttagaagga agaaaaatat tgtacaccaa 420  
 aatcacagag ggccattgga aattggtgct cctctcttga tgctatccat gttggtagtt 480

<210> 29359  
 <211> 576  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011f05d1

<400> 29359

actaatgaaa tttaaattctt agcagttatt tagcaccacc aaaactttca ttgatttgga 60  
 tataagcata tattataact tacaataaag gcattttcgc tcattattga gagggagaaa 120  
 ttagacagac cctattttcga cctttttcaa catttttggtg gcttcattga aattccatac 180  
 taatttgcac aaattttttaa gaaagccacc agcaagaaca gccctgttca atgcatctac 240  
 taacctgctc tagtttaggc agcaagtttc ttattactac atttactctc cactaggcta 300  
 agtagaaaat ctgtaaatac gtgctcatag cctggcattt ttccatatcc aggaaagtag 360  
 ttgatgtcga tgacgtaaaa cacatccttg gttccatatt ctogaatcat atctatgttg 420  
 aacaagtgga gtcccaatct atgacggagc tcccttgcaa gcctctccaa taaaggtctt 480  
 ggtggatgtt cagcgatatt aggatctaga tcagcatcat ctgcagaagc ggctgcacat 540  
 gaaactctcg gaaaacggat tacaccagca actttt 576

<210> 29360  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011f08d1

<400> 29360

acaaaacccat caatcaggta cagttatatc gctgaataag aaaatcataa acaatcaatg 60  
 aaatacaaaa aacgagaata aaattaacaa aatacaactt tccggcaaga agttgaacct 120  
 caaaatacaa ctttctctaaa gcttcagggt atctgagaag tacctatctc caaaagcaat 180  
 ggtctaagga atatacatgt taagagggtta aactagccac aaaacaacct tccaatttca 240

ccactgtctc cactgcatcc taaatagaat gtgcaactca tgcctaccct gtaccaccca 300  
 attggctaatt ggggtccattg atcagagggt acccaaaaaa caccaatcaa tgacaatgta 360  
 tcagaacgag acacacatta ttcaacacaa aatttttcaca cttgaacaga actacctttc 420  
 tcttccacag gtgaaacttg aagaccaccc tcatcccat cacaatcatcc gcctcacatc 480  
 tgtgttacct atcatcatac catcaaaacc agcattctca gaacagtcct cgccccattg 540  
 cgtttcttac acaacacatc acagaaa 567

<210> 29361  
 <211> 543  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400011f10d1

<400> 29361  
 atcaggagca ctggcaaaat aacatcataa cacaaccgga aacttacaag agatgttcgg 60  
 tacattgagt attgtccctg taactctact ccattatctc ggctatcaaa aacaaccacg 120  
 ttaccttttc aaacacagaa cttccacacc atgtagaagc tattagtgcc aaactggctg 180  
 tggtcgatgg tagactcttt aatattacca ccacgacac ttagataact tgctaagtaa 240  
 caaaagttaa atgggtccac tataccaaag cttcaccacc ttccctcatt caaggaaggt 300  
 aaactaaaat tttaacctca aattgctcta ttccgaagtg gaaaaacgag ctccaactcc 360  
 atagttggat cctgcattga gaataaaaca ttcactcagg tctgtatgca taataaccgt 420  
 gaatntttat gctctattta cagaactata tagaggcata aacaaacttt cacatagaac 480  
 caactgaacc cctaatactaa catctaaacg ttagtagtca aaaactagtg actgctatta 540  
 aca 543

<210> 29362  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011f11d1

<400> 29362



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agtatacaac aatccccaac tgcagttgga taaatgcata tagtaagacg ataagcatca 60
tatatagata caatccaaaa ctgctaggca caagataaaa ttacatacaa atttttgtga 120
tcttcaactg gacagtgaag catctaaaac aacaatacta gaaagttgat tcatttcac 180
ccatgttttg aaagattccc gagaagtttg gtatcttata aacatgcttg agggcacgct 240
cagctgtctg ccgagttcga tagtcaccat gctggaaagc atccacaagt gcagtactca 300
cattttggtc ccagaaaact tcataggcta tatcatctgt tctcaataat ctctccactg 360
cccaaactgc ccttctcctc aaagtatctg ttcttttctc aagtagcaca tcaagtatag 420
gcttcactcc ctctgcttca cacaaa 446

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<210> 29363
<211> 485
<212> DNA
<213> Glycine max

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<223> Clone ID: jC-gmst02400011f12d1

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<400> 29363

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gaaactatat ctcaagttatt gactatttac acaacataat ttcgggtctaa tttcacggaa 60
aagcaggcag agcaaataaa agttgcagcc actcatacat gcaagcaaaa ggctgtcaac 120
aaaggcaaga gttttccaaa acttgccctct tgagatagta gaggcagcca aggcaatcaa 180
ttaacaaaag gataatacag ttatctcatg ttcccaagac acaaattttt cctcatcata 240
ttcataggca tgcgacaatt gatatacaaa ctgcagtata tgcccaatag tccttcctac 300
aagcaagaac tagaattatt ttcagcactt cctcaatctt caatatctca gtcgtatagg 360
ccattttgct cccatatatc cacaagaaaa tctaccattt cagcaagagg gataggctga 420
cggaatggct tggtgctccc aagtaaactt tcatatgttg cattccaact caatttaggt 480
tcttg 485

```

```

<210> 29364
<211> 452
<212> DNA
<213> Glycine max

```

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<223> Clone ID: jC-gmst02400011g01d1

```

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<400> 29364

```

```

cccccaactg aatagcaatt agccaatagc taaaagggtc ataacgcacc aaaataatgg 60
gaaacatgaa aagaagcctt ttatggccaa cccaatttaa aaaccctcct ctttgggggg 120
tttttacaag gaaacatgct tatttggttg ggggcctgca agcaaaacac attttgggcc 180
taatggtgac aaacccatt ttggagagaa aattttatta gtctcccata aaaggcattt 240
aatcgggacc atgggggttg ggctgcca ttaaactcaa actcagggga ttgcctgggg 300
gagttcttca actcaggggg cttaatctcc tccaacattt taacaacttg acccattttg 360
ggcctttgat caggccccctt agccccacat gccaatgcaa tttgaagcct ttgaaccatt 420
ttctttttaa atatggcgcc ttaaaaagct cc 452

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<210>      29365
<211>      602
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmst02400011g05d1

<400>      29365

```

```

gaggaaaatc tattctaatt aattttcagc taggaaatta catgaaagta aaggaggaaa 60
atgcaaacia aagataaaat ttaaaagggt tggcaataac atgtacttag ctagggacac 120
cttcacaaaa ttaattacaa agtaatccaa gttctcttct gtttcatata tataaaaaact 180
acagtttaat taatttcata atactgcac acacccttgt gccaaataat tagtctctct 240
atattgttgc tccaagaaaa ctccataaaa caattgaaaa tcattgatat catgcccagc 300
ttcatattcc attgctgcat gttccatcat gtcactcca caagggatcc atgcattcat 360
ctcatcaaaa ggcaaggaag agatcaattc catgtcaacc cattgattag gatcactgac 420
tgacgtggag caatcttgac tatccacgtg tcccatctca tacatttgac ccatttcagt 480
gtcagtgatc tctgcctnca atgactgaat catggtcaca agtctatcat cgccatagta 540
ctcttcttct tggtttcttc catagtgaca tgagaagaac atgttgatnc gagaatcatt 600
cc 602

```

```

<210>      29366
<211>      468
<212>      DNA
<213>      Glycine max

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<223> Clone ID: jC-gmst02400011g06d1

<400> 29366

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tgaaatggtg gccaatgcaa ttctttctga gtaattttgt ataaacaaaa actagaaaga  120
aataaacttc tcttattttac ctttgacaga aaactaaact tcaaaggaat taagcacggc  180
ttttagagtc tcctcagaag ttgccactg cttgtcattg gcactaacca caaacaaaac  240
aacagtgttt ccctttgctg ttgcttttgc aagatttgtg gtgcctgtga gagcatatgg  300
tgtttcgagc acgtatttgt agtatgtctg atcaccaagc tttttaactg aagtctcaag  360
gagctcttct ggatcaaaag tgtttccagt gacaaatggg ccaagagaag caatcagttt  420
ttctgggctc ccaatgtcct caattgttgc atttggtttg ttggtaag                468

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<210> 29367

<211> 443

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400011g08d1

<400> 29367

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ggtacataga atccatttta aattttaatg gccctttcca caattttctc aataacttca   60
tattcatacc tacaaaagcg caatgctttt tttttggtta ctacatacat aaaaaaaatt  120
gtaattggcc cacaacaaaa tacagagttt gggttgtacc cggtttcaaa ggtccatcct  180
ttcaagtttg cggcttcaaa caaagctgat ctccatttct ggaccttctc aaagtcctta  240
cccaacatat tttcatgttc agtcatggct tcaccataac tatttctttg acgccttata  300
tccttgggct ccactttgta aaatatgggc caaaccagtt ggtttttcat cttcatgcat  360
tcaaggattg ccaaaagctc attaagacac caccaggaat gtgcctaatt tttagaaaat  420
aactgattg aaagccttga ttt                443

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<210> 29368

<211> 439

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400011g09d1

<400> 29368

ccagtcaaac acaataaaaat aaaatgaact atgcatgaag atttaactat gcatgtttta 60

ctattagttc ctgcaattttt ctttttgctt gtatgcataa aagaaataga agacacattc 120

aagtattcaa cttcagccgt gtgcaccacc cccacggcca gacacaaggt aattaaaatg 180

ggggtgttga aaacttgctt ttccaagtga aacaaacatt ttagagacgg gaagatgatt 240

ttgtagacct tggatcttta ctatattcat acacaccaat accttgctttt cttccaagtc 300

ttccagcatc aacatactgc acaagtagag ggcaaggctg atatttgcttgc tcaccaaggc 360

cagcatgaag aactctcatt attgacaagc acacatgcaa tccaatgaag tcttgcaagc 420

tttaaaggac ccattggat 439

<210> 29369

<211> 431

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400011g10d1

<400> 29369

atagacaata attgaagttc ccattaaaat ttaaaacaaa aacttatcaa acatgcattc 60

acctttaaca cttccacaat accacggttt actgggccca aaaacaagga cagatgccta 120

acgtccttag gaaactcact ttattacata agccaaaaat aatccctgaa tgggtcataa 180

ccaacagcaa aaatttcact ggccaccatg ctttgcttgc gtatgggtgtg gcaaaccact 240

ttcattgggg aaagacttgc tgcaggcttt gcaagaaagt ccacccgact taggagtctt 300

ggctttggct tcaactggtg gagtcttggc tttggcttcg ctgttgggag tctttccgcc 360

tttttttgca gggtagaggag ttgctggatg gccacctttt ttaccatcag tcttttcagg 420

agtagcattt t 431

<210> 29370

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400011h01d1

<400> 29370

aagcaagtta taaagtaa atcatttatt caaacctaaa gaaacacaat aacacatcat 60  
cacaaactca tgtaaccctg ccaataaaat aaaccctcat ccctaaactc cagcaccagc 120  
agcagcttgc tcacttcaat acacaactcc tagaatttct catgtcacca cgtggtaagc 180  
acgctgatgt ggagccaagt gttgtgctca cacgtaggta taccctccat aatacaacca 240  
aagacttaac catcatataa taataatata ttaataataa agtaaaactaa agaaataaat 300  
aaaaaaaaa gcttttcaac atgacatgca aaatggtaga cctaatgac cccacaacta 360  
ggaccatttt taaacttggt tttctcactc acactgtcca taagtctaag cttcagtttt 420  
ctcaacagga acctctactg gggcttccac tgtctcagct ggtttggtct cttcctctgt 480  
ggctgctgct ggtgctgatt ctgggtctgg ttcagtagtt tcttta 526

<210> 29371  
<211> 540  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400011h0461

<400> 29371

gaacacaaaa accgcgtttc atcattcaaa tgtaaagggt atgccacgtt cattgaaagt 60  
tgaaacttac aatgctgata atcgaacaca ctgacccttc tacagaaaaa catggaaggt 120  
cagacgaatt tatagaattc ctatgtcaaa ggggataagt taaagaggaa agctaacaac 180  
acattttcta atactttttt tatctgcttt ctttcattga ctgaaattca tgtgagtttc 240  
acttgtttgt ggatgagagt cacatattta gcaagactca cgcgaaatttc tatcaataga 300  
aagtatgtca gaaaaataa atattagaga atatattgct agtatttttt gttaaataaa 360  
aataacttaa accaaggcaa tgctgctctc tccaccaggg ggtttcggg caccttgcac 420  
agggtctttg atttctgtct ttccatcagc aaatatgtca ctgccagtca tttctctgag 480  
cttagccctg ctcagaggct tctcagctga gccctgagga acatcttctt ggaaaatatt 540

<210> 29372  
<211> 538  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400011h05d1

<400> 29372

aaaagtaatg catctataat aaattagaaa cgtcagttag tatcattgcc aaatcaaaat 60  
 tttcgatctc aaaataagtt caaccccgca ctacaaacta cagtatctta aagcaaaggt 120  
 ttacatctac ttgctgtata gatgaactgc agtgaagatg aagaaaccca ccatcattga 180  
 aaatgatgct ccataatagg gataggctgc tggatataaat ctttcatatt cattgtgtct 240  
 aaagggacga acaggaatct gctttgataa agataagctt gtatatccaa gtttttcgta 300  
 ctcaactttg aattggaaaa ccccatagac atctggaacc ttaaattgatg tgaaataacg 360  
 gcccttgcca tcagttgata aagtcttcaa gacatagggg ctcatcatgt aaaattgcac 420  
 ttgaacatca tcagctacgt aagggtccca tgctgtccca gaccactcat aaacttcaac 480  
 agagtattcc aaattatcat tgatccgata gatggctggt tcattagctt ccccaact 538

<210> 29373

<211> 595

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400011h07d1

<400> 29373

gaatggaaga aggcataatct ttaaattgaa ttgatggggt ggaaaacccg aatttaaaga 60  
 tttccaatca tacacaatat tgcaacaaca aaaagaattt taacaaaaaa agactttctt 120  
 tttttacttt ttttaccxaa aacctagca aaatataaaa acaaacgaca ctttttttta 180  
 gactctttaa atccaaaagc tgatcacaat caaatcaat ggcgttattt atgaaagctc 240  
 cataagactt caaacgacca aaagccggtt tctccattga tgttctcttc aaacatgaat 300  
 ttactcttca atagcaaggg gcacagactc agccaatttg cggtaactga gagcatagaa 360  
 catctcgagg taacgtttgc tctcacggcg ttcaagattg gtcacgtgct tccagaagcc 420  
 atacacacca gtgagtgtca agagcctgtc cgagtaaatt tgccatgtgt acttctcatg 480  
 aatacgcttg agtccaccct gggagatttt gtcccagtga gatggatcag ccttggctct 540  
 tctcaaagaa ctcaacatgg atctcagcag catggtcacc atggtaagga tcaat 595

<210> 29374

<211> 458

<212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmst02400011h08d1  
  
 <400> 29374  
  
 gtgtcatatc tagactatta agaaacgctt taatttatgc taatcttgaa agacctgcac 60  
 tcattacact gattcgaata gtgtaatttc cgtgtccatg tacatttcta taatctattt 120  
 agaagaaaac aaaaatttgg aagaaggata taaaacataa tattaataac aagcaagggg 180  
 ctggggagaac ttcacgagac tcagactagg agaggcttcc ctcacatctt tgttcttatt 240  
 attatggtgt tgccacattt tcctttgcct gtggagcaat ttcttctcca tcacttccag 300  
 gttcactgcc aggaactccc aagcttagca gcacttcctt ccaactcctta gcaggcccct 360  
 tccatgaaag atcttgagcc atgcagttct tgataatttc tgtaaaagct ggagttccat 420  
 agactgcaag ggcccttttg acagtctttg atatagca 458.  
  
 <210> 29375  
 <211> 570  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400011h09d1  
  
 <400> 29375  
  
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 tgctctcaaa ttagtcagca ggaacaaaga tagagagatc caacgatctt taaatttcac 120  
 atttgccata aatatataac agaaaagagg gtatgggata tgagttaagt tttgatctca 180  
 ttcaactaca gtatcccaaa ccattactct taagactttg aacttcactt gtactccagg 240  
 atcatgttgt tctcaggagc taatccaaca caagccctta ggatgttttc cagcatagct 300  
 cgctgctttg acagtgcatt aaccactggc gtactcgggtg gaacctgtaa ttttaataatt 360  
 gttgttcaca caatttgaga aaattaatca aaggggggat gaaaaaatc actgaacaat 420  
 tatgaatcag atacattata cttaccagag gggccttggt caagtaactg aggatggctg 480  
 caactgggtg gaatgagtgg aactttccct gttaaagcca taactcattt gagtctttaa 540  
 aaacttanga taggaaatga cgttggaatg 570

<210> 29376  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011h10d1

<400> 29376

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 tgagtatgaa tatcataagc attggcactg ccatcataac agcactcaca cgcatacata 120  
 acataattaa caccatgaac atgcccttct acccaactct aagctacttg catagtacta 180  
 catatataat atccttattg aaattaaaaa aaaaaacaac agtaacatcg gaagattaaa 240  
 aaacatagcc tottaatcct cccatcccca tgaacctgca gtggtctcgg ttcattgaac 300  
 cagcccatTTT aaaggaaaag accttaatta ttttttgcatt aatatattac agattttctt 360  
 cctcgatcat agacaagggg aggaaaattc aagggtcctg atcatggtgc ttgttggtcaa 420  
 cattgcact 429

<210> 29377  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400011h11d1

<400> 29377

aaaagaaaaa ttccaccttg taactattaa tatgaagcaa agatagtagc atttggtatt 60  
 tcgcccacaaa catccagaat cacaaatggg acttcctgat tccaatctat gacagaaaaa 120  
 atcacaaaac tcaacaacaa ttttataaaa gccaaatcac tcggaatgat cacttggcag 180  
 aaagcaaaact ctagtatata taaatataac tctttatgtg gccaaagaaa tcaagccaca 240  
 acccatctgt ccccgatgat tacgtaaaac cagccatttc aaaaacccaa gccgggtccag 300  
 ccacctcta tttaccaagg ctggaccttg taggacccaa ggacattgac ttgaccccca 360  
 actgttggtgac tgtcaaaactg gaggacttta gtcactttac tgatagacca gccaaagctc 420  
 cttctaattg aagttgaatc caccagaagg cacagcagga ggttgagcgc caccaaagtt 480  
 gaac 484



<210> 29378  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400013a01d1

<400> 29378

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 acgttgaaca ggaatcctca ttctatttgg attagcgaga cactgatttt cttcactaca 120  
 caaaaaaata tccaagatga ttgcttatat ctcaactcaa actcaataaa acgttttgagc 180  
 tgatgcatct ccgcttggtc ttctcacatg tacaccagat tttttgtcat aatgattagc 240  
 agtgatatat cttttaagggt caattcccct actgccactg tgatttttgc ttttgtagc 300  
 atacaaaact gctttatctt ctgagtcctg ctggagcctt ctacttgac caccattact 360  
 atccactaag aaattctgat ccaagttatc ataggaggaa gatgccccca tgtagatga 420  
 aagcccatag tggctatacc aattgggtcc cacctcacca aatatggtat ccgagaaaat 480  
 aacagaaaact ggagaggtcc ttgata 506

<210> 29379  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400013d01d1

<400> 29379

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 gactcatgta accctgcaa taaaccatca cccctaaact ccagcaccag cagcttgctc 120  
 atttcaatac acaactccca gaatttctca tgttaccacg tggcaagcac gctgatgtgg 180  
 agccaaatgt tgtgcttaca cgtaggtgta ccctgcataa tacaacaaa gactgaagca 240  
 tcatataata agattaatca agtgaactaa agaaatgaaa ggaaaaaagc acaaagaggg 300  
 ttttaaacad ggcatgcaaa aggggtggacc tgagccccac aactaggacc atttttaagc 360  
 tcgtttttct aactcagagt gtccataggt ctaagctgaa gtcttttcaa caggaaaccta 420  
 aactgggggtt gaactgactc agctggaa 448

<210> 29380  
 <211> 513  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400013g01d1

<400> 29380

gcacatagga tttcagtcctc atattagaag tatgcaattc aaatgtgaga ttacaaggg 60  
 catggcctct ccaactacaa ctgactagat tttgtagcat agttctccca agttctgaaa 120  
 gtattatatt tagcaactct taagacaaga ataagtcggg ccacgcgaaa ccagttgcag 180  
 tcttgagat caatagatat ttctcactgc acttccccctt tttctttagt gcaaagataa 240  
 gcagacaaa tgagaatata tgacgataac agcttaatat taaatgttat gcaagtctct 300  
 gtacatgcaa aaatgcaatc cccacgggaa cacattacaa aattgccag gtgagggtc 360  
 gagaaataaa atgaacttac aattgttaat tcgtaaagt aactcttacc cttttttgta 420  
 tgggtaaata acttcataca tttacttctt gtatcagc ctccaagggt gatgggtgta 480  
 attatccagt agcaatatct gctaaaagca tct 513

<210> 29381  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400013h01d1

<400> 29381

gtataaatat tgctgttctt ttctttttta cgtgccccaa attgcgttga gttgaatatt 60  
 acagaaatgt gaatgcaagt attatatacc taaacttaag ttgtccttgc ctttaacccc 120  
 atcttctcaa gtttaacaca ttggccactc cttgcaaata ccctacggaa gcctgccaat 180  
 gttgcaagga tagccacca atttcagttc acacgcaatt tctctggcac aaaagcaaaa 240  
 attggaaggt aaacagctta cacagtatcc cccgttttcc ttctcaagca aatgtaaaca 300  
 actatttttt gccacattca ctagagtatg tgttcagctg caaaagggtc caaatattgt 360  
 tccttgaccc tttattattc cttcccttgg gacacaatat ttagctagcc caciaagtcc 420  
 tggatcatat gcccttcaaa ttgacgccta agctccttct 460

<210> 29382  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014a01d1

<400> 29382

acaataataa atccatattt ttataattaa aagtagtaga ttacagcgat gcacttgaga 60  
 aacatattaa gtggactaat tctccctggt caagcaagaa aaaaaccagc tatgacccaa 120  
 ggtagagaga gattatacac agaatactag taattaacta agactggctc tgcaattgcc 180  
 aaaaactcca ttgcagtagc agccacctga gaagacacta agacctagac tagaccatac 240  
 ataatgaaga ttaataccct tacataacaa cataggacac taagaaaaca cggcttcaca 300  
 gagaatccca gtcgatctca taagaagggt acttctggag attaaaatta tccgaatcac 360  
 cttccactg cggctcgctg acgtcagcga aagtcagaac cgaaagcg 408

<210> 29383  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014a02d1

<400> 29383

gcacgcaaag ctacggcaaa caaatggaat tctattacat tatgaattac aagttccttg 60  
 catggcatac atcaaggaaa actgggaagt tgttgatgt ggattgattt gccacagcct 120  
 tatatagaca aaccaaattgc ttaatatcaa cacaacacg tgtacagaaa agaaaccact 180  
 cttcaagaaa acagaaaata agaaaaacta acatattgga agaggtgccc cattccactc 240  
 cccaaggcat tccaaaagtg gatcaatgat cttcccttgg cacaagcag tgaacacttt 300  
 gtcacactct tcacccggtg agataaccct ttcaccagtt agcaatgctg tccccaactc 360  
 ctctctcaca aacttgtaca aggggtaaga cctgcattcc ttgatcttgt ttggaattgc 420  
 acattgggtca ttctcatatg caactcttgc acctccact tccttaggca aaagggtctt 480  
 caactcttcc tcaaatgttg caatcttttg gaag 514

<210> 29384

<211> 545  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400014a03d1

<400> 29384

aaatatgaaa aacttaatta aacccaaaag aaaaatatat acagggatgt gcagtcacac 60  
 aatacatata gagaaagtaa tttttacttc ggcatgaatc attatatctt cacaatcttg 120  
 tcaattactg gttcaacgaa ggcttctaaa tcatccaggt cattcttgag ttcttcaacc 180  
 ttgtgtatga attcttcagt taactgagca tcatgtgctg cctcttttga tgcacgttct 240  
 acaaccaaag ctgcttttct tagttttacca ttctcaggaa gcattctctgc tacatcttca 300  
 gatacctttt ctgctaccgt tgccactttt tctaccactt ttgccactgc ttcagcctct 360  
 tcaaccacaa actctgcctc cgcttgtatt atctgtagtt ttcgccagta agatttccag 420  
 aaaggtagca agagagaaag taccatgccc aaaacccatc ttaaccaatg agggagata 480  
 gtgaagaatt tagaagcagg tgcaggagct tctggttgag ccttcacatn ctttattctt 540  
 ttgga 545

<210> 29385  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400014a06d1

<400> 29385

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 aaagactgga tgctaggaag tttaactagt gcatgatagt tataagctct ggtaacaaaa 120  
 aagtaactgc tgttgacaga aaaaggatgg aaatactgaa acaaacaaag ggaagtttca 180  
 ccaccctttc tacacaagtc tcaactggaa agttgaagca aatatccact cacaaatctt 240  
 tcacgaagac gatcagttaa tgagacgccg gacgagtgac ccttggcctc accggagtct 300  
 ttgaaggact cacccttatt ggctgggtcc ccaagagcat ccctacag tttagtgcaa 360  
 taatagcact ttcagccatt gcaaattcca caaagcaat tcgagttgaa tgcacgtggg 420

cccccaagag cctcaggcgc ataacctcgc cacaagctga ttcaaaaaaa ttcttcactt 480  
cagcttgaga aacctttnta tcaatatttg gacaatagac agtccgggca caca 534

<210> 29386  
<211> 493  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400014a08d1

<400> 29386

ataaagttag taaaaactct aattaatcat aaccatcaaa ggctataaca aagcatgcat 60  
gctgcacctt tactaaagt gttcagtatt tgtacacatc ggtggacact agacaagaaa 120  
acgaatggtc attagagagt ggaatctttg aggcttttct ccttattgca acccttggtg 180  
aacttgtttc atggaacaac ttttttccat aatatatttc tatctatacc ttcgctggtg 240  
ttctttatat aaaggggact atgcgggaaa cttaaagat aagaataaga tcgattgatt 300  
acaaaaagga catatgagac taagagtagc aaaagagcta ccgaaagaca agtaatttac 360  
cagagaaaaa gcaaaggcaa aagttcaatc ccagtactgt gcacatatta tattctttat 420  
ttaccacctt tgtgcttttc gcagaccttg gacaagaagg aaaggaaaac gatgatcaga 480  
gcaacccccg cat 493

<210> 29387  
<211> 525  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400014a10d1

<400> 29387

aaataaaaga tcaaaggttg aatttgatcc ttaaatttat atcaagtgc atgtttttca 60  
aaatttattt ccatatataa ttacagttca atagaaaatg taaagataaa ttcatttaaa 120  
aaaatgacaa cccgacatta aatcttgcta tatgtatatt ttgatgttgc cctatgcaag 180  
actatgtgat cttttaaatg gaaaataatg gatcatcatc atctaaagggt tgctaaaagc 240  
tttgaatca aataatttga gacaatgcgg tttgtcttct ccgtaggatg aaaggcatcc 300  
caaaacacgt acttttcggc gtctgtgcat gtaagtggat tcttgtcact gcacaagtag 360

ctcatttcaa atgttctctgt cgaacaacac gccttctcta caacctcaaa tccatatgtg 420  
 gaaggttttg taatgatata actgaagatg gaatatgcat ttgccgacaa agctttcaat 480  
 tgtggaaggt ccctattaag ctctgttatc acattctcca acttc 525

<210> 29388  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014a11d1

<400> 29388

agtcacaatc ttcaatggat tgatgaacaa tatgattttg atttcacatt ataaacattg 60  
 acaaaactaaa aagtacagtt ttgccaagct tataccagaa acatccaaga acctatagaa 120  
 agatagcaga aaaataattc tacaaggggg aatcaaccac tgagcatttt acaacaataa 180  
 cttattgtat caccatgctc ccaatcttaa tattttatct gtgtgtatca catggaaaag 240  
 taaattaatc taccagtata cttgtttctg atctgctctg tggcttgttt ggtaattaca 300  
 tggccctatg tagaccttac ggctacatag atgatgtggt ggtatcattg acaaggatac 360  
 tctgtttcct ctatatattg tgttcttttt atgttcaaaa ttttcaacct ccacttttgg 420  
 agctttatgg taataaatga acattatgga aaatgaatat atgtatataa tggcttaatt 480  
 tattcaaaac ttcaattctt tttagc 506

<210> 29389  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014b01d1

<400> 29389

gtcacacttc ttgtaagcat ttaagtaaaa tactgattag atcaagccat aagcacacta 60  
 gttattttgc aaacaagtag ttcataggca tattacagat tacagagtca agcttattta 120  
 ttgatttcat ttaaaattac taaggaatta cttctccatc cagaaacggg ttaaagtggg 180  
 gtgaaaacgt cttcaccttt gctttgagtt ccctcagtcc tottaaattct tccatccata 240  
 tactgtaact tgagttctta gcaagaacat cttcagacac ctccttatta tcaataagtt 300



gggtgcaaag caatgcaacc tgtagaatcg tctcaacttc ctttggatca taactctcca 420  
 aatttctatc aacaatgtcc tgcaaccttt tctcctcagc agctttttca cataatcaa 479

<210> 29392  
 <211> 356  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014b06d1  
 <400> 29392

cgaaagccag gccattatta actggaacaa gtttaggccca aatccacaac actactaaag 60  
 ggaggttaatt ttaaaaaccc caggaggggg atccaaaaaa gctccagaca attaacttat 120  
 gggagtttac ataaggaaat acctaaggta aggacacatt agcaaaaaag ggggccacaa 180  
 taataggaga agttttaagg ggagcaacgg gaattacggg gctcaatatg gaaggcaccc 240  
 aatctggaaa aagggccctt atttttttcc acttttttgg agcccaaaac ctccaaagct 300  
 tcccttgggg gggccctggg tttaaaactc cttaagggcc tttgcccttt cctttt 356

<210> 29393  
 <211> 505  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014b08d1  
 <400> 29393

agacagcttg acctcacctt catcagcctt attagcttct tcttgctctc tttccccct 60  
 ctcaaattct tcttggcact tgtttaacaa taatctcttg aaagttatct tttcattgtc 120  
 ttgactgaga tcaggtaaca cagctgccag atgaaaacag aaattggcat acatttcaca 180  
 gaaggtaggt tccatcaagg ccttctcaaa gatttgcgag atgacaccat tgagagtga 240  
 cacattgtca atattaactg ctctaacctg atcaaaaagc ttctcaaaat tctgaggagt 300  
 taacttgttt aatataccct tcaattgcct ctgctttgcc tgttctcat ctgtcacttt 360  
 acccacctca tatttctttt cagctttgtg catcatctgt aaaggagttt gaggagtaga 420  
 cggagatgga attaaacccc tctgctggaa gctattagtg cgctgccacc tttctccatc 480  
 aggggctatt tcttgattcc tccct 505



<210> 29394  
 <211> 534  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400014b10d1

<400> 29394

gacgaaaatt tgcttttagat tcctagtgtc aagaatttat gccttatata cagcaaagaa 60  
 cgggtcagta catttgaaat ccgtcaactt atccaacacg gtcataataa catccactgc 120  
 ggtgcgaaga caaatccttc aaattgcaga cttgaccctt tcgttcatca agctaccagc 180  
 ttatagaact tcagaggatt tgcaacagca tttgttacct tggaaggaca gccgaaagtt 240  
 cccgcacaat aaaatactag cagttgttct gtacaggctg aagttcctga aacacaagtc 300  
 ttgatagttt tccatggcac ttccatcaca cagcataact gaaaaagtta ttatcactaa 360  
 tgctttctaa gatactttcc tacagccata gttttgagct tcaaactgag aggcaagggg 420  
 gcttacgtca tgtgggggac ataaataaaa gggctggaaa cagttatttt agcctatttt 480  
 ttcttgactt cccctgcccc aagctcaaca ggaagctgta natatatgtt cata 534

<210> 29395  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014b11d1

<400> 29395

agggaaaagt cgtccaatta cttttgagta aacaactcac gcacgcccta aacaaacaaa 60  
 aagcatcatc attttttgca ggactcggca aagcccagca ttgttaaagc aactattggc 120  
 catttcagct tcaactactat taaaaatata cacacaccac actctaacct tttagaaggt 180  
 cccacagccc actacaaaaa ctaagcccca ctataaaagc gcctacatca tgggtccacta 240  
 cccccacca tttgacacta gaaaagaagc gcatatcaat tgaacttttg acaatgtctt 300  
 cctctctact tgaaatacgg caagacatga tataggggtt tgcttgtctt ttccaaggca 360  
 ttgatatcga accctgtatt gacaaaagct gaaagaaagg caaaaaagga agaattatgg 420  
 catctgactt tgattgcaac ttgatgcttg ccaatgactt atttat 466

<210> 29396  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014b12d1

<400> 29396

aacatctagc agaagcattt ctgcttagcc tctccaattt cacgttaca gttgttcaca 60  
 agtactacta atccaactaa gtgaaaatgt tctaattaca accaaaagcc gaagaagaaa 120  
 agacttttac aatatgctag taatagtgac gaggcacaag aaagactctt cttcttaaga 180  
 ggaggatgag aagggtgtcaa tgatggttgt gtggagtggg tcaactcaagt ggggtggccca 240  
 gttgttgagc gggcccttgc cgggtggcggc ggcttggact gcaaagccca agaagcccac 300  
 catggcaaga cgggcgtgct tgatctccgc caattgaagg gtggctttct tctctgggtc 360  
 tgaggccagg cccaatgggt cgaagtaact gccacctgtg tacaacctct tctctgggtc 420  
 gagctctgca ttcctctgga actctatgta gccaattacg agtacctcga tccagatcag 480  
 tgtggtga 488

<210> 29397  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014c02d1

<400> 29397

agagacaaaa gtgtaggttt attagaaaac catctcaaaa ccgtgcatca cttcaagttc 60  
 agagatttac aataccatt agcaggccaa atatatatga catttttgga acaaccccat 120  
 tttcaagcat tgatacaata cagagtaaag aaaagggaaa agaaaaaaga aaaaattaag 180  
 gggattgatc atatgatcat gatcatgtgg tggagtctaa aatgaccttg gctttgccac 240  
 aatggtggaa tgcttgagta tgtgcaagct aaattgccct cttttctcac tagtgtcaat 300  
 ctgtgactgg ccagggggag gcaagagctc aaagttttgg accaaacgtc ccaaagtgat 360  
 gccaaagaatt ggcaatgcaa gaatgattcc agggcagctt cttctgcaa caccaaaggg 420  
 aaggtaccta aagtcattgc cattggcttt aacaagcgac 460

<210> 29398  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014c03d1

<400> 29398

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ctgccaatcg ttttgcttct tttttattta tgggacttaa ttcagactag ccttgtctca 60
cacacaacat aaagaaacca acaaatgctc ttaactcttg accgaaaatc ctagtctcta 120
attttccagt cccatgacaa cattttcaat ccattgataa gaacaaaaaa tcatcgttgg 180
gaacacaata ttttcccaaa catttttttt cgctgtcaca ggacgagctt cctttcacct 240
catctatttc cgcaatgcct cacaaacaaa cattatttat cgttagcctc gtattaacaa 300
catacatatg gggttttaac acaagctggt gtgcaaaaac cagaaagtat ggccttacct 360
aaccttcaga ggacctgtat ttgctgggtt ctgaaagaat cttgcaactg gcatcccatc 420
agcatcctcg tttcctgctt ttcctgctct ccaagaacga tcttttttcc tctgtggctt 480
tttat 485
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<210> 29399  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014c05d1

<400> 29399

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aacaaacatt aaaatatctc aaataagcag tcgtagtctg aactttgaaa cttacaaatc 60
gcatgcacct cacaggatg gtacaataat aaccatgatc agagcaacaa tgtacatata 120
taagcctcac tcacttttac atatgcatgg tccaacagt cacaacaaa ctgagcacct 180
tcaaatttgg ggaagcagaa aagggaggca aagaatacaa agagtcaaga aatataaaga 240
gggggagaaa aaaaaaaca tataaaacgg agcagctatg cttcaaagac aattaaaatg 300
aaatcatcat agaagcttgt cggcacactt cgccctcaat tcacctcagc cattttctct 360
cttgaggagg atgtacattg gttcctttgg cac 393
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<210> 29400  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014c06d1

<400> 29400

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aaattaaaat ttataaaaat tttatttccc acgagaccta gtacaatata tagtaacaca   60
ataaatacaa gagattctgc aaactgaaaa agggattctt actaaagcaa actcaaacia  120
gaacaacttc cactcatttg gcatctaccg tagtaacaca agatcaaaag cagcttctct  180
gatagaacac acgtacgtat gattcaacat ctttcacagt agtgggttcat ttctaacagc  240
tagctattgc aacttaaaaat aattgcaatg cttctgcaaa gtgctaactt tttttccccc  300
ccttctttat ggatatgaca atgtgatcag aatgaaacaa taaccaatcc attgaatttg  360
aatctgattt tgggttttga tcgataccac cattcttcat ctcaggaaag gacaagaaat  420
aggccaaagc ctactaatta agcgcttaaa actgcattag tggctgggtt aagtgtgatg  480
ttagtaacat cagctt                                     496

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<210> 29401  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014c07d1

<400> 29401

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acaggaactt ccttgcagct tttatgggta aaaaagtaca tgattgtaag accaagattt   60
ttatttaaaa aaaatacaaa atatatcggg ctaaatttta gatacacata ttatatacaa  120
gaagaagaag aaaagaacac attgatagga acatcattca ctagtcttcc acgcttctcg  180
caagagctca tategtacaa ccttgcggcc tcccttaact agttccttgg acaaaagtga  240
tgagtcattc atgccaagag cagaaagtgg tgaatccaat tcatcaagtt catcatcact  300
ggtatataat tttttgagca caaatgaccc acttctcagt gaagtttttg ttcccacttc  360
ttgtagcatg cccacaactg aagaagctgg aggtggttca tagaacgtgg aaccagcaga  420
gcatggaaag cttgtaatgg cccctta                                     447

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<210> 29402  
 <211> 574  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014c09d1

<400> 29402

ggaaaacaat ttataatttg ttcacacatt cacaatattt gcaacatttg atagaacaaa 60  
 attaattggt gatcgatta gaatagaata tattatcaaa cgcgattcaa actacattta 120  
 aggtacttga aaaatattaa cacccttca cttccaggaa ttgaatacat cagaggcatt 180  
 caattactgc cattggccat gtgaattatt ctaagatcac gagtgaacgg taggtagctg 240  
 ttcaagcaaa gccatcaatc aactaataga gcgagaaaaa cagaatgaaa ctaacggtca 300  
 acatacacta tgcacatctt gacagcttct gaacctttaa tttgtttcac tcaaaagata 360  
 gaaaacaaac acatgtacat agtatctttt ccttttcccc tgtatgtgaa ggaatacaat 420  
 agaaggtgac agaacaaata cacctcgcca tgaatctaag acatcctagc aaaccctgt 480  
 tgtaaaattt cccaagcct tcaatataga gctggttgct catcgaatgt aggttcacg 540  
 atatctggtc caaaatcatt tcaacccgag agag 574

<210> 29403  
 <211> 513  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014c10d1

<400> 29403

ataggggaaa acaagttttc ttgtgatgta tttagatcta tttcaattac ccgttggtac 60  
 gttgtggatc ttttcaagaa gcaacgatca ctatcaaact attttaataa tgtagtatca 120  
 ggtattttat gtcaaaaatc ttttcaattt acaatgcata tcaaaattat atcccaaact 180  
 aaaactttta tttattttatt tattagctgt ttaaataatg tatgggttaga ttgtatttca 240  
 taaactaact tgaattttta attaagctgt acatgtaagc cagtcaattt taatttttca 300  
 ttttttgaag ataaatagat gacctatcca agaaataaca aaggagggtta acggttataa 360  
 ggaaaacaga aaaaattgaa aacatgttcc acaaaaaatg atcgatttag gattacgttt 420  
 ttgtccatat ccattctgca acttttacgt tggctttttc actcttatta cattaatcca 480

ttctgcaact tttactttgg cttttttctc gag

513

<210> 29404  
<211> 512  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400014c11d1

<400> 29404

agtgattaac agaaatgtga ctaaattgca ggtacttgtc tgaagatagc atatatcttt 60  
ttctaaaagc agataaaaat agacaatgaa ttgcaggttt aacagattaa gcagctgctc 120  
caacagctac accacccttg agcctggatt taccatacag ggtttcttca aaccggatta 180  
tctcattctt ggaccataa gcaacttgag ttctgtcatc aatgttactg atgactttgt 240  
ctagcacaga ctgatgacca tcaactgctgt aacctccagc tttttcaatc aagaacccca 300  
aaggagctac ctcaaacaac agtctcagtt tggctttggc tgatggatgat gacacgttgg 360  
tgaagattcc tttttctttt acaataatct ggttgacgtc tggcaccatt cctccagtgt 420  
atctcaatgt gtacttttca ttgacatagt aatcgatcaa cttagcataa tcgggggttgt 480  
cagatgtggc tctcaaattc ctggggagaa ca 512

<210> 29405  
<211> 476  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400014c12d1

<400> 29405

aaaattataa atagtgatgt catcaagggt tcatatttca gcagaatgat cttgacataa 60  
aagttaacat ggctaactctg aatattcctg tggtaacgcc aacacctaca atgatgatgg 120  
acttgacata atatacagaa ggatagcatt tatgctccaa gtgacttaca ttggcttcct 180  
caattacatt gttgaggttt tgctaagaag ttgaaaatac aagcacttaa tagtttacag 240  
agccacattt ccttctaatt tgcccttgta ttctgtgaag tactccaaca ttactaagct 300  
tcaccatgga tgcagcaaaa tcattataga aggaatattg gtcggtgctg taaaaataag 360  
ccatagaaga agtccttcga tccgaaagta gtgccatgtc agattctaga agccctttgt 420

tggataagag atttctataa tactcattgt cgaaggtcaa agtagtatta gaatca 476

<210> 29406  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014d01d1

<400> 29406

aacaaaaaaa tttgggtcaa aaaaatttgg ctggccacca ttttggctgg tgaaaaaccc 60  
 ccccttttgg aaagggaagg gccaattttt tggggggggc cccaccctt ttacgtacgg 120  
 gcctcaataa aggaaaaatg gtccagggga cacacctttc acaatgggga caacttggac 180  
 acccgttggg gttatcccc ccaagcgcaa tggttgttta acctgtcccg aaaaaaaaa 240  
 gattttattt ttgggagcgc tctttgaaac aaaaatttgg gcccccttt ctcgggggtt 300  
 ttataacccc cttaccccg ggaaaacccc tccccggg 338

<210> 29407  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014d05d1

<400> 29407

cttctccctt ttcttctctt cctttttctc ttctttttt tcttctttt tctctcttt 60  
 cttttcttct ttcttctctt ccttggcagg tccaactgat attatatcca cttttcttac 120  
 tttcttcagc ttcttcaacta ttttcaactgt gtccatttga ccaatcaactg tcaacttctg 180  
 cttcatggag ttcaaggcct tggcattgct actactcatc ttcttcttgg catccttatt 240  
 agccaaagcc tgaaccaaga aatcgctccag catcacaagc gccttgatgt acagattcgg 300  
 aaccttctca gactcgggtga cacgcatgac cttctcaagc tgtttggtta tcttgtcaaa 360  
 gctctcttgc aaactcacc agtcattgat cttgatggca ttcttcatct ggtcaacagt 420  
 ggataccatc tctcgaatc gcttatcttt cgccgacctc acaaacgcgc tttggccatc 480  
 ggaatcatca ct 492

<210> 29408  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014d10d1

<400> 29408

aagcagaaag aaaatTTtat ttatgacctc tggggaaaga gaagggagta tcatagttag 60  
 cattaactc ttcactagat actttgcaag caaatattgg atcctaaca agtgaattag 120  
 gttggcaagc cctgaagtgt attattattt tgagtataca acatgtttta cgaactttgt 180  
 cacgtacaat acttgactaa tttccctgca gtgcaccact gtctcggagg gtgccgtgac 240  
 cataccatcc cttgaagtta acctaagata tcttctctt caagagatga gtacttgagt 300  
 atggctgcaa caatcctatc tttgtctctg gttgggaatg cttccaacag gacaccatct 360  
 ttgtagaagt ggaaaagagg cacggccctg attctaagtc ggtcagcaac ctcggttgac 420  
 tcatcgtact catccattac attatgcttt aggaagatta ccggagcttc atgatca 477

<210> 29409  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014d11d1

<400> 29409

gaattattca taaactcatg cagataaata catcaaggat gtgtccaaaa gacaactatc 60  
 ctgattatga atatcctaaa gtaaacaatc aaattacaag ataaataaaa aaaataaaat 120  
 tatgaaacaa gcaacatata ttgggaaggc agtgtccaca aattcaaaca gcaggaata 180  
 tgaacatccc acaatgcaat cgacgccatc ccaaactaac acaactcatt ttccccacc 240  
 aaaagaaaa atggctcagg aatcatatag catctatggg gtctactttc cgactaccga 300  
 ccgactcaaa atatgaggcc ctcaaacaga ctcaatcctt ttattatatt tatgctgcat 360  
 agaagaaatg tggatttggg tgggtgtggg acaaaagcaa agaaacaaat aaattgctga 420  
 tgacagtagg cattggttga gcaggagacc aaggtatatg aacttgcttg cttaatcatc 480  
 aattaccagc atctctgctg taaaac 506



<210> 29410  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014e03d1

<400> 29410

ggatgctatt gagggctgtt attgagctca ataaccctcg tgtgagaatc aacgcacccc 60  
 tcatcataac tattacttac agttcaaagt gctcttaagt tcatgaagga agataattct 120  
 gacaacagaa atagtcttaa atataaaaca agcaagtata tagcatagggc aaatctacaa 180  
 ggaagatctt tgattaacaa accagccttg gattaatcca catgggggaa ctttgattca 240  
 tatttttatga gctcaacaaa atcattcaa 269

<210> 29411  
 <211> 479  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014e04d1

<400> 29411

gtaataataa atacatcttt attttctatt ttcatataat atagacatac cacctatttt 60  
 ccaagaagta cattttcatt tgtcctcttc cccaacctca cttagccact atttacatat 120  
 cctctacccc caaaacttag gtataatttt accttagaaa ccaaacccta taagtcctta 180  
 tcaaacatca tcaccttaac taagggtgaa aagagccttg cttattttgc tacatgccat 240  
 tcttttgatc actgcacat caactatttc ataggtgtct tatttctacc tcttcagcct 300  
 tttccagttc tattggactt tctatatata caaaacgcta gaaatcacta cagaaaaaaaa 360  
 gaaagaagga cggtgacact tcccaatacc tgccttagga aagctcgagt attggatttt 420  
 gatgaaacga cgtcgaaaca ctgcgattag tatagtagta tttttatact acctaagag 479

<210> 29412  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014e05d1

<400> 29412

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 cgagcaattht aaaaatcccc cttcactaag ctatgaaggg acacatggaa ttttaggttt 120  
 acccttcccc ctcttgaaca agagaacatc catgacatgt tgacaacctc aagctgcaac 180  
 actatacatc aattataatc tcagtcattt tctggttcaa tccaaatctt tgggctggta 240  
 ggagaataca ataaataaca tgatacaaaa aaaaaatttg cccctcaagc ctcgtaatga 300  
 aaaatacaac ccaaaacact tgaatctatt gcgagaaatt tactagcaca aaagtggaca 360  
 acccagcaat ttaagttgaa gaaatggaag tctgcataac aaaggcagat gaaaaagaag 420  
 tgacctctgc aagctgaaga agacaaggaa gcacgcataa aattca 466

<210> 29413  
 <211> 449  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014e06d1  
 <400> 29413

gctgctgtgc atgctaataa atattattgc caccttactc ctctctacag attgcatcct 60  
 ccgcgtcaca agtaactttt gactcttttg gtacatctcc tacatctata ctgcacatat 120  
 caccactaga gttgtttctca tcacatttcc atgcattcct cttgaaccat ggtcgggtgta 180  
 ttttctgctg tctaaagtac ctcgttccca aatcatttga gtcaccttc aatcgtttac 240  
 ttatgtgttt attgtcctca aacagaagggt tagagtcttc aagggttaaca ccagttgggc 300  
 tgggaatcat atcatcagag cgacaattaa ccataccgct ggtatcccc tgctcaactt 360  
 cagcaggctg atccattatc atagcattag tattagaagg ttgacaatct ttgttgctcc 420  
 gtggataccg gggtagtgga ggaaaaggg 449

<210> 29414  
 <211> 517  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014e08d1  
 <400> 29414

ggaaacgcat gtttgaaact taattgtcac cggtacaaat cagaccaaga atggtttctt 60

tcagtactta taccaatctt gatttaagtc ttattttaata gtaagtttgt tcagaagcat 120  
gagcatcaca agccaagtga ccaaccacac aagggtttota ttattaacgt tttctcctct 180  
aggagatata acaaattaaa agttggtaaa cttcttttct ttcaagctat ccacagtctc 240  
cttgaggctc acttccaaag gagtatatc aatccccaag ctctttgcct tttctttgga 300  
tacctgatat attggcacat atgggttatc atctgcacac ttctctggaa gtagtaatgt 360  
cgggtacaaa tcacgtaaaa tcttcacaat ttctgagtag tgtgccactc tctccaccaa 420  
acaatacctt ccattagctg aagcattctc atatgctaga atatgggcat ttgcaacatc 480  
tttcacattg acccaaccaa aagatgcatt tggaaat 517

<210> 29415  
<211> 441  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400014e09d1  
<400> 29415

gttccttcaa aagggtttat ggctttataa ttatgattcc ccattaagtt tgtatggatg 60  
ctcaaaaccc ccatttgac cccatgaatt tgatttacca gagggggaat gaaatcagtt 120  
ttgatggcca caaacaattg gatttaccag agggagaatg aacatggctc ctaaacaatt 180  
tttttatccc ccaagctttt gaacccaaca tccattccta aataaccttt aactacaaac 240  
cctactatac atcccaaagg taaaagagct cctatcatgt tgggatggcc cataagaatc 300  
aattttaccc cataaaatcg ggggatcccc taaaaaaggt ggaaccacct ttttgggggt 360  
tttaccttcc ccatgaaaaa ttaatggatt atgttttacc ataaagctac atgactactc 420  
aagagacctt tttataggga t 441

<210> 29416  
<211> 517  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400014e10d1  
<400> 29416

gcctcaaaaa accagcaact agaccaacca attcttaatt ttcacaactt ccattacaaa 60

cttcgtactc ttgtcaacta aatcatacac aagatgaata aacaacacat tctgagcacc 120  
 taacacacat gcacgtacat cagcatggca caaatctatc cataagcaag cacactgttg 180  
 cctctgacat ggtttcatga gtgtctctct gaacagccat cataaccttg tgagcctcct 240  
 tcttcacaac ttgttcttct tctgaccctt ctttgccctt ggagaagagg ctctttcggg 300  
 ccataacaac tttctctctg agctttgtca gctccccctt ccaccctca accataactca 360  
 actattaatt agtcactccc gctcacaaaa actatgtaat ctaagaacct cttttgtttc 420  
 ttgagctctc taaatctctt caatttatgt tttaaatggg gtacatgggt ggagtgaaac 480  
 tgttcaagtt tatatagaaa atagacaggc gaatgag 517

<210> 29417  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014e11d1  
 <400> 29417

aaaagacaag catagacaat cactacctgt aactaatgga tactctgtga cacttacact 60  
 aacacgaaca gaagggcata tgacccttaa atggggacag cccatatgac aagtgccgac 120  
 tgaatccagt tccgtataca cagcatatgt atatatagac cgatatgtac ataggacacc 180  
 agtgagtcaa cgactacaat tgagatacca ctataggag gattgaaaca gaactgaaaa 240  
 ccaccctat gtccttgact gccgactggg aatagacaag tcaccctcac tgaaccagtg 300  
 ggcttcatcg gccataacgg ctga 324

<210> 29418  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014e12d1  
 <400> 29418

gagagcaagt aggatcctat atgagctgtg tgattctgta tatgtacaaa gaaaactatt 60  
 tcaactcaata ttatacaaga agtattggat ttatatgata ttctaagaaa aaattggaga 120  
 tatgggcctt ctccgagact catagcaata gatagatttc gaaccaattc cctccaacta 180

actgtaaccg ttatcttcgg gtaggtatat ggttgcatc ctgaaaccag cattacaatc 240  
 tgagtcctga tatgagtggg ctcattgtgac tgtctgcatg ggttgaacgg aagtcattcag 300  
 gtggactaat cggtagaatt tcaatagagc acagggctgt ttagataggg acttgactat 360  
 gttgaatgtg atgaacaatg tatagtccta gtcacgggca ctgcttccaa aagttgagga 420  
 gagagggact gatccaggca tctgttgggg ggatagggtca acactacggg catcaacatg 480

<210> 29419  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014f03d1

<400> 29419

aatatcgcaa tcgctgaaca atgttattta acaaaaggat cgaccacaaa taaaaacaac 60  
 ccaactccaa tcatcatcac cagtccagca aaatacattc aaaagctatc taaaaatttg 120  
 aggaaccac agtggcgcac tagaaaccat gaccatagaa tttatgagag aaatattatg 180  
 ggcaccgtgc ctctccaaca atccccaaaa cgttgcttag gcttcagcaa acccaagctc 240  
 agaaagcttt tggtagacct cagcgtaatc agcgaagaag gcatcttcgt ccgatgcata 300  
 tttctcaaca agagggcgga acacagggtc agacaaaagt gccttgctcag aaggtagctg 360  
 aaggaggcct tctttctcac cactcaacaa ctcttgaag tatgagttgt cgaaaataag 420  
 aggattagag gtccaggac cctcgaatcc agaacgctcc ttgtgcgcag ctccaatagt 480  
 gtgaccccca gacagagcaa cgatatctcg gactaagcc ccatagcttt gccaaacaca 540

<210> 29420  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014f04d1

<400> 29420

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 gcaatactgg cattaaagaa gctgcctttt gttttcttac atgggattga ggagttactt 120  
 gtagaaagaa caatggttgg cagtaggtat actacagacg cagcctagac atttgtaatt 180

ttctgcattt tcacgcttta cgcggatgac tctagcaaaa tacgtgattt acaatccacc 240  
 tagtacaaca agctaacatt ctgactcatc ataacaagca cttgatatac accgaaaaaa 300  
 gaaacaagct cccttattat taaattaaaa agctgacaaa ttgggggggtc aactgatgaa 360  
 ttagatccat tccttgggggt tgatgcatgc gtccaagagt ttccattctt cgcttccttc 420  
 ttccgggtta tgatcgtatt cccaccgagc agtcagtggg agag 464

<210> 29421  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014f05d1

<400> 29421

aaaaaaaaa aaaaaaaaaa attttatata ggccgatttt accccacaaa aaaaaaagg 60  
 gggactgttt tttccaaaac caaatTTTTa aacaaaaaaa aaatttgaaa agggaaaaac 120  
 acaggggaaa atgaaaagac ccattTTTTa acaaaagggtg ctaagattaa ccccaacctt 180  
 tgggtgggag aaaaaacctt agggaaaaaa tgagggtttt tacgacccaa aaggggggaa 240  
 cttttggaaa aaaaaatttt ttgcacaagg ggttttaacc cc 282

<210> 29422  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014f07d1

<400> 29422

ggaaattcat gtttgaaact taattgtcac cggtacaaat gagaccaaga atggtttctt 60  
 tcagtactta taccaatctt gatttaaggc ttatttaata gtaagtttgt tcagaagcat 120  
 gagcatgaca agccagggtga ccaaccacac aaggtttcta ttattaacgt tttctcctat 180  
 aggagatata acaaattaaa agttggtaaa cttcttttct ttcaagctat ccacagtctc 240  
 cttgaggctc actttcaaag gagtatattc aatccccaag ctctttgcct tttctttgga 300  
 tacctgatat attggcacat atgggttata atctgcacac ttctgtggaa gtagtaatgt 360  
 cgggtacaaa tgacgtaaaa gcttcacaat ttctgagtag tgtgccactc ttttcaccaa 420

acaatacctt ccattagctg atgcattctt atttgctaga atatgggcat atgcaacatg 480  
cttcacattg acccatcgca aagatgc 507

<210> 29423  
<211> 442  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400014f08d1  
  
<400> 29423

atcaacttaa acaaagttca agcactagaa ctttacatta tatatagagt aaagatgggc 60  
catatataca atataaacat aaccaaacac ttcaaagcta aaacaaaaac tcactattta 120  
tacaagggga attcgctcga caacttaaga atttatttgg caactagggc ctttatacta 180  
ctcagtcatt cttaagctta tatacattgg caatggaatc ttctgtctcc cacaggaaag 240  
atccaaaagc aacagcttcc aagactaggc tcttcaagct agaaaatgaa gtcaaaataa 300  
catcatcatt ctcaaccgaa cccgattcct tgggtggtaaa aagagcacia ctataacttc 360  
caaccaaatt cacaggcttc ttagacctca atctggcaca tttctgcaat gatccgggat 420  
gaaagctcat aacataacat tt 442

<210> 29424  
<211> 479  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400014f10d1  
  
<400> 29424

gcaatgtcaa ttttcctttc accaaagtgt gcaaaattta agttacatta tggacaagta 60  
aggtccacac ataagctcct attcaaaata caaaaaagag agaaaaaaaa aataatctaa 120  
agttaatttt ccgaagaaag ttggtgagta cacaaaacac aaccctttc aatttctctg 180  
ttctcaatta acgaccatt tttgcattgc agcctctatt attattcatc cttttctaatt 240  
ctgtaccact ttaagctttt ggagcactaa tgactaccct taactctctc gaggcttcac 300  
ccttttgcatt ctcaatgtcg ttgtttgttt cagcatcttc taccacagtc tccaacctcc 360  
cattttctga acaacacttc atcacctcca tggttgtctc tgctctttc tctttgctct 420

ccttggtgtt gcccataga acggagtaaa gtcccattac tatgagaata gcaccaacg 479

<210> 29425  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400014f12d1  
 <400> 29425

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 ttattagcag accaaagatc ctatggtggc tctttctccc tcaactacaca aactatacta 120  
 tacagcaagt tgcaaattatt gtacaagaaa gcaataggga ctgcagatga acttccgtat 180  
 gaattgaaat ttccatacac attggagggtc agctaactgat aaaagagtag gaaattaaaa 240  
 catgtgtgtc caatgtgggt tcaacacccc actttctctc aagtctcaac agaagagtgg 300  
 tatcgtaact tccacctncc ttcatttagt ctaattgctt tatatatgaa ttacc 355

<210> 29426  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014g02d1  
 <400> 29426

gaaaaacaag gggaccttcc aacaattcat gtttcaagtt cgaattataa ttacataat 60  
 ttttgcaagc gggggataat agataaagta gagtttataa tgcaagaagc caagaggctt 120  
 atgacatgaa acggggaaca gagatgaaac ttgaagggaac cccaaggga agttgaagct 180  
 caagggtagg tttcaaaggc tgggacaggg gctttggaac caatgaagac gtttccataa 240  
 atcaagccag ccaaaccttc tccaatcaat gggccaaccc agtagatcca gtttgcagcc 300  
 aagtttccac tgaccacagc tgggccaat gagccagctg gggttcattga accccccctg 360  
 aatgggcctg ctgctaaaat gttggcacc acaacgaacc caatagcaat ggggtgcaatg 420  
 ataccaatg accccttttt tgggtctact 450

<210> 29427



<211> 345  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014g03d1

<400> 29427

agggggaatt ttaaattgaa agattaaaat tggcataagc aatacagcaa cagggtacca 60  
 caccttaatt ttggacaatt taattcctag cagaattatg tcaataagaa cgaacaagta 120  
 gcgtaggggt gaaatcaaga accatttttt gatgaaatta aaaggacgg cggaagattt 180  
 gagatgatat agctagcctt ggggtaagt cacaatgacat gaggcaccag ttaattagct 240  
 tgcttggcct ttttctttct taaattttct ctcaaataa ttggactatt tcaccttata 300  
 attgggcaat gacctttcaa attacccttc aatttcaaga agcct 345

<210> 29428  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014g05d1

<400> 29428

cagaaaaaat tatttccttt gtagtcttta taccatagtc aacagctgcc aagaaacaga 60  
 ttacctcttt ctttttttgt tttccttcag ttcgatcca agataagcat ataatgtaaa 120  
 cacggtaagt ctttctacaa ctaaaccgaa cagtggtagt tgagtttctg atgtttcttg 180  
 gccgtcctag ttactttcca caatcaccta gtactatggg atcaacatta gaaatacaac 240  
 ttctcccat gcagagcagg aagtgggaca gtagttataa ttaacacaca caactgctac 300  
 cgtaaaccgg ttagtgatta caaacaacat tgcgaaagta aattggatca aggtcgtcat 360  
 atcagtgggt accatcttca agggttgtca tttctatcgg tagtaagcct gctgataagt 420  
 gggagccaaa acatttccat agccaccata tgcaggagga tagttcatgg gag 473

<210> 29429  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400014g06d1

<400> 29429

ataaatcaac tcgaaactat taatgtataa cacaaccaa taagtttaga tcttgatctg 60  
 attacaaaga tattaacaaa cctgagatga gaggacacaa tcacactatc tgcgtattac 120  
 aaatatcaac tgcaaaaagg agaaaggggg gatataaagc ggctacctat acaaccacac 180  
 agccactcaa agaaaagctg aaggtttagct ccaagttaat tttcttcctt tgcttggtt 240  
 cttagccgat c 251

<210> 29430

<211> 530

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400014g08d1

<400> 29430

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 agcacatggtt acaataacat tccacttggt tggctttttg aagcttggtg gtcttaagaa 120  
 cttggcctgt ttctccacca agaaaaataa cataactgac gaaagtaaaa tccaattttt 180  
 tgataaattt taaaaaccac gggccttcat gcattgataa catatttgaa caggatcttg 240  
 aaggatcgt gcaaaaggtc taaatacagc gtgggaaaaa ggtttgcccg acataccctt 300  
 cagecattgc cctcctcagc ttagattcaa acatctttgg gttctctctc aacacagcag 360  
 cggcatcgtg attcagtggg tctctgtaat ttggttcogt gaaaagatga tacaagccat 420  
 agatgacagt gtttatatta aggacaggtt tccaatcttt ctgtagatg ttgagacaaa 480  
 catttccttc caagtcaata tttggatgaa tagacttngt cttacactta 530

<210> 29431

<211> 538

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400014g09d1

<400> 29431

acattgtata taaatgattg caccgcacaa gaaaatgatt aaaaatagca agtgaaacaa 60

aaatcgacaca ttaattttcc cctcctgttt ctatcgggtg ccacattttg gcaatctctc 120  
 atttcttttt caacactctt cctctgcacc ttcgaattcg tataataaat aaatgaatta 180  
 aacaaagaac catttcgaat aaattaccaa aattcctata ttctaaattc agaaaagcgt 240  
 aaatcaaaat tttcctcagc gacagcactt ggagcacagt attaggaaaa caacgagaaa 300  
 gacaatggaa gaaagcgcta tggccacacc aagaaccacc ttgttgggcc catgatgatg 360  
 ctcttcatg tgacggacac tgccaccacc accaccacca tcaccatcat cataatcata 420  
 atctccatta ctgccatcat cgcagaatt agaacgcttc gaaggtggag gagacaccgg 480  
 cctnccaact tatcacacgg agcatcttaa gcttatgata acttggagac aaacggac 538

<210> 29432  
 <211> 496  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014g11d1  
 <400> 29432

aaaagacaac aatcagaact gatataaata taattatata aagagtctca attcactcca 60  
 aaattctggt atgccccttc actatttccc acacattcct tattcatggt tccttctctc 120  
 tctcatcatt gcgcagttca catctccaat acctagctgt catgactcgt gtacattcaa 180  
 ttactctgtc aactacagt ttcctcctta ttccaagcac catttgtatt tctcctcttc 240  
 taatcacgta tattttccct tggcccaaca cttcccaacc ttctctcttt atatacaagt 300  
 taaaggtcta tcatcaatca tttggaaagg aaaaaaaaaat gatgttttct gagacgtggg 360  
 aacctatgct cataatcaaa cataatggcg attataaatg aatggactac catatctggt 420  
 ttaaaattct gtgtacattt ctcttatacc aattaaata aattcaaata atccctatag 480  
 acaaccata gaaaac 496

<210> 29433  
 <211> 480  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014g12d1  
 <400> 29433

aacatacaaa aatgaaaatt tgtgtattct tcttataattt ttattcacaa gcaaaaatga 60  
 ttttaactcca cagatatttt tcagccaag ccgcaaaacc aacgaatgaa ttcttgccat 120  
 gtcacatca ccacaaccac gtcaccatta atatactoga agaaagtctt gaagctgcta 180  
 ctttggggccc caacatgagt cattaaattc catctctcaa gaaattccag ctgtcatcca 240  
 ccaaataatta atattatcat cactatttct ttatttttat tattgtccat gcagcgtgtg 300  
 tttttgaaat gtcacattca ttaccacggg tgagtgaaga aataaacaca acttgctgtc 360  
 gagtttaact ttaaaccctc ttacgtgtca aaatccaatt ggcgtgaaac cctcgagctt 420  
 ctgaaggatc tatcaagctt ttcactcaaa gccctcaaga cctgcccacg tgcateccct 480

<210> 29434  
 <211> 550  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014h01d1  
 <400> 29434

gcacatagga tttcagtccc atattagaag tatgcaattc aaatgtgaga ttacaaggg 60  
 catggcctct ccaactacaa ctgactagat tttgtagcat agttctccca agttctgaaa 120  
 gtattatttt tagcaactct taagacaaga ataagtcggg ccatcggaac ccagttgcag 180  
 tcttgcatat caatagatat ttctcactgc acttccccctt tttctttagt gcaaagataa 240  
 gcagacccaa tgagaatata tgacgataac agcttaatat taaatgttat gcaagtctct 300  
 gtacatgcaa aaatgcaatc cccacgggaa cacattacaa aattgcccag gtgagggctc 360  
 gagaaataaa atgaacttac aattgttaat tcgtaaatgt aactcttacc cttttttgta 420  
 tgggtaaata acttcataca tttacttctt gtatatcaga ctccaagggt gatgggtgta 480  
 attatccagt agcaatatct gctaaaagca tcttcaacgt ctcataagtc ataaaacaaa 540  
 tacctacacc 550

<210> 29435  
 <211> 548  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014h02d1



<213> Glycine max

<223> Clone ID: jC-gmst02400014h05d1

<400> 29437

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 ctttttaata aacaaaacac agcttctttt ttagagtga caacaaatac agcttttagtt 120  
 ctcaattaat taataacttt tccagactct tcatgatgga aggatggatg ttgcgtgtgt 180  
 cgtgctagta gtatactttc tttctttttac tgcgcgacaa gtttgctgcc tttgacatcc 240  
 acaacaaacc tgtatcttac gtcattcttc tccaaccttt caaaggcttt gttaatggaa 300  
 tccatgggta ccatttcaat catcgaactc agacccttct ctttccagaa ctccaacatc 360  
 ttctcgggct ccttcatgct cccaatgaag cttcccgta ttgacttct ccttagcatg 420  
 accatggggc taacaaattg aagaggggtg ttgatgaccc ccatcaagat c 471

<210> 29438

<211> 61

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400014h07d1

<400> 29438

ccctctgctt acattttttt tttttttttg ggaaaaaaaa aatctcccc cccggggaaa 60  
 a 61

<210> 29439

<211> 444

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400014h08d1

<400> 29439

actccaatga acatgacaat ttcatatatt attattatac ttcacaatca gcatttcttt 60  
 gttcaagact gataataacc attaaattat tggcattgta acaatcggaa aacgagggaa 120  
 aggaatagaa gaaaacaatg aacaacctt gccagttagt tgcaccaacc aacaaggcac 180  
 caaccatagt accaatcaaa aggtaaaaag agagagagac caaatcctac taagaaaagc 240

ataactggtc ctttccatcc aaagggagaa aacatgcagg ttttgctcat ggcttccaca 300  
 gaatggttgt gtctgcaatc atggaagtaa ccacgtatgg gtccatggtg gaagctggcc 360  
 ttctgtcctc aaaatatccc ttccctgctt tctctgtgtc tctcccaacc ctaacagaag 420  
 ctccacgggt tgcaactccc cata 444

<210> 29440  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014h09d1  
 <400> 29440

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 tataaataaa attctcagcc aaagaaagga aaaagtccaa cctcaatctc aattcaagcc 120  
 tcaacttctt tttcacccga aaacggaaat aaaaaataaa aaaattgaag caactgggta 180  
 gaagcaattg ctcatgttg aaacaaactg aaggaattcg aggctttgtt aacacttggg 240  
 aagatcagct ggcggtggaa acagcttctg atttgggagt tttccatcca acacaacca 300  
 tgccatctta agaccccagc ttgtgtgcac ttccaagtga caatgcatga accatacccc 360  
 tggattatct gctaggaatc tgatagcaac ccatccacca gatgggactc ccactgtgtt 420  
 tctctcaatt gggtaagaa gattgaagtt tgcagggtcc ttatttgga 469

<210> 29441  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400014h11d1  
 <400> 29441

gaacgagtat aatgtatctc cattgcttca ttacatcctg tgtaacaagc atgtaaacca 60  
 gtgcattaga aagcacaaga ttgcttggtt ttcaagtata atatctcaaa atacatcaaa 120  
 ctaataaatt ggtcacaatg gtcacccttc cattcttcta tacatcgact tggcactctt 180  
 ttttataccg ctagtagtca tcacttctat ttcttgacct aaagaatctc ctcaactg 240  
 cagcggcagc accaagaaac ataaacagaa gaatagtgtc aaatccacct tcaacgccta 300

cagctacact gggacctggt gcaaagaatg aaaatggaga ccatccccag ccaccgtaaa 360  
 atggcacacc ataaccatag ccatagccac caactagcgg aggtgccact cgaggattaa 420  
 tatagatatt ggctctggaa tatgtgattc ttggtgagga gcgcgga 467

<210> 29442  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015a01d1

<400> 29442

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 acacccatca caggtccaaa acacttgaac ttgctgaaag gcaagacatg accactttat 180  
 tctaaggatg tttgtttaac acaaacacc agagggcacg aaaacatca cagacataat 240  
 acataagttt ttagctacac attaatagtt aatcattatt cctaattaag ggctatctct 300  
 gcttgaagct tgctttccca acacctaact tgcaagtga ggggttgag gagcagtttg 360  
 gtccacattt gcagccatgg ttcttagcgg gcacacccat ttgagcacc tcaaattggg 420  
 ccttaacagg ggccactccc atgaccaagg tctcgggtgt ggttga 466

<210> 29443  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015a02d1

<400> 29443

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 atatecctct cacgtgcaaa aaaatccaac ttgctgtaag gaaaaacctg accacttcct 180  
 tttaaggacg tttgtgactc acttttgccc gaagtgaac cccctctttt tattcattaa 240  
 gcataactgt ttcacacacg ggaagtgttt gtcaagggtg ctaagcaagg gatataactg 300  
 tttgcattctt 310



<210> 29444  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015a03d1

<400> 29444

ctgggggaac ccacttaatt ttccccattc attgtacctt aaataatata aatcaacctt 60  
 ttggcttggg atgggttaaa aaacccaagg ggtatgggtc actctctctt gtaatgagcc 120  
 acaccccaaa gggggtcgcg tgggttgtga acacacgata gaggtggggg taccaaaaaa 180  
 gaaaaaatgg ataaaaagct gtttatacaa aaaagggtgaa caccttcttt cccccggaag 240  
 taggtgctgg ggtttactgg gcaggcatta aagggttcta ttcttggggc atgaaccaag 300  
 gaatctgcct cgaagcgggg ggggggtgcct tcttctgaa aaattcaatc atcctaacta 360  
 gggagaccct ttttgaaaaa atatgac 387

<210> 29445  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015a06d1

<400> 29445

gataaatatg ccaaccatta taccatagca ttaaaaattt aaaaccagtg taatgtatac 60  
 aggtacccca ctaaaaaagt acaaagatag agattatagt catcatttct caagcatcaa 120  
 acactttctt cgcaacacgc agatcccggtg acttttcata ctcaacaagt tattacactg 180  
 caatcaaagc attccagtcc aggtcgatgc aaaaacttgt acagaagcca atgaaatatg 240  
 cacgataaca agacattaag caaagattag agaccctgtt caatgagata atcaccaagc 300  
 ctttcaacta ccatgttgca ttgacctgga gtcattgggt catcataaat gccaatgatc 360  
 aaggccgcac cgggtcttctt cacagtaaca ccaccaggac ccttcttccc tcgaatgaca 420  
 gtaccgggtt caccctggat gaccatatat ttggtgccac cgagatacaa tccaattgga 480  
 gcaagtgatc caggctcatt aagtcattca tg 512

<210> 29446

<211> 381  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015a08d1

<400> 29446

atctataaaa agcaatacgt tatttgaagc tgaattaagt aggtagttag agattacatg 60  
 atatggacca tgatagcata tgggtgatgg gggccaaaaa aaatgacaag catagtgggtg 120  
 ttgtcaatga ctttcatcaa gattaggtga gattatgata aaacttttct cttgatataa 180  
 ttgagctcta aattcggttac gaactagtag aacaaagtcc tacaaaattg gattagtatc 240  
 attttttctca aggaaaatca cattattatg ccatgtcttt ataaatagat gatcttcctt 300  
 ttactcatgc agactttaac ttagatgatg ttgaagccag atgggaaaga cttctgtgtc 360  
 ccacaaacaa cagaggagca t 381

<210> 29447  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015a09d1

<400> 29447

atcacactaa aggatctgat taattgaagg caatatatgc tggacaaccg cgcaccactc 60  
 acttggcata tatggaacac atacataatc catatcgcat tacttagtgg cggggcatgt 120  
 gttactcatg tctaattgcac aaacatagca ggggcatgaa ggaaaaccac aaaattaaaa 180  
 cgaggatcat atagctgata ataataacaa caacacatgc actataaaaa ccacatgcag 240  
 tagtggttagc ggcattcttct tcagattggg aacgcgctat tgatggaagg gagagcgctg 300  
 atcctgatga tgacgtaacg tgcgaaaacg gttgccttga acgggcacga ccagttgtgt 360  
 tcggacctat ctttgccacc ggcgttg 387

<210> 29448  
 <211> 527  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015b01d1

<400> 29448

atcggaaaac ttctgaaact attactatta ttttaatacat taattaatga gtacaaatac 60  
aatcactctg tcttctttct tattgttcaa ctttgaagga gacgaaccct ttagcttctt 120  
tctcactctc cacaacaaca acattatctg acacattggt catagaaagt gctacaaatt 180  
tagcctcatc ttgagcataa aatgaatatt gaaaatgact aatcctatta ggaaacacca 240  
aaactgatga aaaatcagcc acccacttcg tgccatttcc gctcgcagtt aacttcccaa 300  
ctgttgatct caagctcatg ccattcacat tgttgcgac aatcaccact tgttcaatgc 360  
tactaaaatc tccatctagt ttacaatag gaaccttctt attgggggtca ccattaaaca 420  
tattatcaac tatatttagg ccaaaaattt gacctttaat ggacttcaat acaatattag 480  
catcccctaa aaacaacca ttagtgacat gaacttgac aggatct 527

<210> 29449

<211> 364

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015b03d1

<400> 29449

aacagacctt ttgaatcaat aaatcatagg tagaaatatc gccaacattg cctgttagat 60  
caccgatggg aactattaca actaactgca atacagatcc aacgaattat aggccatga 120  
taccaaaaac cgagattttg attattcgaa ggaattactt ttgccttgga ttccaaagat 180  
gctctaggaa atgggggatag cacctcatag gaataattat gtcaatgcaa taaaagttgc 240  
taaccaatct cctcagtttg aagcccgaag gaagaaaatt ttatccatga aaaaaatggt 300  
ggagacgaac attacaggac cccagaatag gacaaatgta aaaattggaa cccacggaga 360  
catt 364

<210> 29450

<211> 215

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015b05d1

<400> 29450

cggtgcaatc atataataat ttcattgctgc aatctgattc agaggcatct aacaagggat 60  
 caaaatttat ttagaagatg gagtcattccc ctctgtcttag ggaacagagt gatgaaccac 120  
 ataggccact cgttctacac aacacattat aagaacctta aaaaaacaca tgctcaacaa 180  
 gtgagcccca tgggtgacaat aatatatgat acccc 215

<210> 29451  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015b06d1

<400> 29451

aagcttgact gaaatttacc aaaatgaaat tccataacat caaaacacta aaatatcaaa 60  
 ccaaattcat ccaacttggg tgggtcattga tattaacaaa cacagtaaata tactccttag 120  
 aacaaaactt tgacaaactc atgctctagt gttaattaag aatatgttct gaacaaaaaa 180  
 gctgaataga ctacaccaat taatcgaaga gactgaaacc catatcatca tcagattcct 240  
 ctttctcctc caccttttcc tccttctttg cctcaacagc aggagcagca gcagcagtag 300  
 ctccctcagg acctgtggcg acggaaacgg accaccacca ccagagggaa ccgtggccaa 360  
 tttttcccta cgggcagcaa t 381

<210> 29452  
 <211> 332  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015b09d1

<400> 29452

aaacgttaga aactcgtaat gtatacattg tggatttaca caacgaactt gccagagccg 60  
 atgtgagtaa tacattgcat taagatgaaa agaattgccga gatgacttac ctgatgatac 120  
 agcagcctgt gttgcatata ggtctggaca actgggtggc tgctaaagag ttagaggcta 180  
 tatgttctca cggtactaac ctactagtgt attagaaagt ctacaatcac ggattgagga 240  
 tgatgcataa ttctatgggc agtggatatg acattcatta tcttggtgag cctagccctt 300  
 tttactcgac aaatcacatt ctctcgata ag 332

<210> 29453  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015b10d1

<400> 29453

gagtaaaagc atggatatta tataatTTTT tttttcatga atacattgag tagaagagat 60  
 taattaccta aaagaaaaga acacacactg aagaaaggaa agtgcttgaa aatactaaag 120  
 ggtatttacc aaaggctctt gtcttgaaag aacctttaat ctacatagga tcaaagaaaa 180  
 gcttgcaata aaagcacaag caattgccat tattaataac attattattc ttacaatatc 240  
 aagtcatttt gcttccaatt atctcctttt tgaaacccat gattatgaag aggaaattga 300  
 ctcaaatagt ggggttgctc ctgaatgatc caagagcctt agcagcacct gctctcaaga 360  
 taaattggtg gtagaaggct gcaatggctg ctccaataaa tggccaacc caaaagatcc 420  
 aatgg 425

<210> 29454  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400015b12d1

<400> 29454

aagatggtca aatagcattt attcattaaa ttaactccga aagtaactga ttgttcactg 60  
 aaaaatacta ctaacagaac tatcatcatg aacacgcaa atagtttcac caaaagggtt 120  
 tgctacagta ataatcgta actggggaaa atagttcttc tccgcaactg gaatggtggt 180  
 tgtgataatc acctcgtgaa acaagccact ggacaacctc tcaattgctg gaggactgaa 240  
 aatagcatga gtgcagcatg catacacttc cctagcccc ttttcattgca agagtgtctg 300  
 acctcagca atgggtcccta cgtccaaaac caacatttga accagaaaat gcaccaacat 360  
 atataaatgg ttaaaagagc aagagtttac aactataaaa ttctagtga aatacttta 420  
 aaggtangaa taccaaaata tgctaaggat catttgg 457

<210> 29455  
 <211> 476  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015c01d1

<400> 29455

agaaatcaaa gggaatctaa ttataacag agcattttac agctagccgc gagcatacat 60  
 aaataggcag atttttgttt tgtgtgtaca cacatatata tacagatgta gcccgattca 120  
 gtgttttttg tccttaggtt gctgccgtgc ggtgtatata atatcaggct atgaaacctt 180  
 ataagatttt ttacgccact ccctgcatgt atatattgac atagtaatat tatatagata 240  
 tgtgacaaca tatatgaatg aattttggcc cacccatata gttttattca attttctcca 300  
 aacttagaag agtttggttc aatcgatcta ttccttcacg attttgagtg tatttaatta 360  
 gctatgtgtg actccaagag accaagaaca ttaaggttct aattgggtct tctgattgga 420  
 ggctcaacct ttgattggtg agaagcctac tactactgct aggttggttg gatcca 476

<210> 29456  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015c06d1

<400> 29456

gagaagcact atatgtgaga aatatcttct ataacagagc tccatatgta ttaaggatat 60  
 agaccctaca atgaagtata ccaacaatga aaggactaca atacaagtat gcatgcacta 120  
 tagaccaagt gtgactcata gaatgtaaga agttattgct cttgatgata tgatacatga 180  
 caatatagat caaatgtgca tcagaatcca gactgcagat atagtcacac ttaaatgtat 240  
 gctgcaaaat ttctaactaa caagctcagt tgtaggagcc catacgtaca cgcagctggc 300  
 caccagcata cggctggaag ctatccctgg cgcttgatta gtcaatatag gattgtacat 360  
 aaactatgct agcgacgaaa ataagagccc tatctgaaac tgacactccc ttact 415

<210> 29457  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015c07d1

<400> 29457

aaagtggccg tgttcggaaa atatcttaat cataagtcac aaattatcat ataaattaca 60  
 tgctaataca ttattgcggc tcatgctcac tggccactga cttgcactct ttttcgccga 120  
 gtccactcag ccgaatcatg gcccataaca acaccataac attggacttc aactaaccat 180  
 cactagccac ctgcttaaca acaatgggta taataaacac aaaacttaaa tccagtttta 240  
 taagcatgtt tagtaccgat cattgattaa aattgacgtt ctatgttact aatgtatcat 300  
 aatcaaaaact ttttattacg taaattatca aaacaaaact ccaatgttaa ttacaaaact 360  
 gaactaaaat tacttacaaa actatgggtct gactcggctt tatatcacag acatatatta 420  
 cgaacactac tgtgatcatt catttgccctg atatttaata aact 464

<210> 29458

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015c09d1

<400> 29458

gataacaaac agtagtaaca ttaatgggac aatagagttc aacacaaacc aaacttatatt 60  
 tcaaagggtca ttacagaccc attacacatc acattttcttc ttaaaatgtt tgggaaaaatc 120  
 caacatcgaa catcacacag aaatcagctc cagcttaaaa cccccacga agacgcaaca 180  
 ccaagtgcag agttgactcc ttctggatgt tgtagtcagc gagggtcctt ccatcctcta 240  
 gctgtttgcc agcaaaaata agcctctgct ggtccgggtg gattccttcc ttgtcctgga 300  
 tcttcgcctt cacattgtca atgggtgtcgg agctctccac ctgagggta atagtcttac 360  
 ccgtaagggt cttgacgaag atctgcatac caccacgaag acccaacacc aagtggagag 420  
 ttgactcctt ttggatgttg tagtcagcaa gggtagctcc ggccttgagc tgtttgccgg 480  
 t 481

<210> 29459

<211> 477

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015c10d1

<400> 29459

gatgattaac attgaaatat cctattcaaa tatatgtaat gggttaccgt ttcaacaaat 60  
 cgtcggtagc aaaaataacc aataattaga cagatgctgt tggaccctgt aaccatatgc 120  
 caagatcaag taataggata agcagcagga ctaaaaagga aaattacaac atatatgtac 180  
 aaaaatccct acatataata taatatatac aaggtcagat ttcattatta cttgatttca 240  
 tattcttggc cttttccatc cactttctct tctcatccaa gctctttaag gtgcctttcc 300  
 atttacaacc tgactcttga aaaatgtttc ttcaatcctt aacttcatat tcttttgatt 360  
 cctgatgtat ttctgagcag gcactgaaaa tcttctaaga acagccctct gctgcaaaag 420  
 gaggggactt ttcaatgtct ttcaatgcat tttcttgatt ttcttggtta ctaacac 477

<210> 29460

<211> 488

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015c12d1

<400> 29460

gatcatcaac catccaagga ttttaagacga aaggaacaag tacaaccctc gaaagtgaat 60  
 taggaagaaa acacaaggaa ggaaaaccat acacagaaga agattccaga gaaattcaat 120  
 aatacacaat tttttttttt ttattttcat ttccccct ctagtagtca gtggtgggaa 180  
 gctgctcgtg ggtgtggctg ataaagacaa cctcgtaaac aaggccagcg attccaccac 240  
 cgatgagagg cccggcccag tagatccagt ggttggcca ggtccagctc acgacagcag 300  
 gcccaaattgt cacagcgggg ttcatggcgg ctccagagaa ggccccaccc aaaaaatgt 360  
 tagcgccgac aatgaaacca atggcgatgg gagcaataat tcccaaatta cccttcttgg 420  
 ggtcaatggc agttgcgtag accgtgtaca ccagaccgaa agtcattacg atctccaaca 480  
 ccaaggcg 488

<210> 29461

<211> 324

<212> DNA

<213> Glycine max



<223> Clone ID: jC-gmst02400015d01d1

<400> 29461

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gcacaaaact ggtaatatatt catatcaatc aggattgagg caaagccgca aagatccaac 60
attcattagg gaaaacagga cttgggaaaa ataaggggag aggggttgag gaagaatcaa 120
tggttaacag agcatgctaa aacatctaaa tgttcacac acggtttttg aaacagccca 180
atttagaaaa tcctcctatg gtgtattata aaagcagaac caatgaactt gtagatagta 240
ctttcttata cgtttcactt ggcaagtgcg ttacggatga acttagctgc ggcaaccatg 300
ttagtcaggg ctggctttac tttta 324
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<210> 29462

<211> 451

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015d02d1

<400> 29462

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gtaaaaagca agtaacatta agttggattg ggatacacia gataattcac attatctgaa 60
gtacattgca ataacatata cttcaccaaa cacaatcta aaaactctca aaagtccaca 120
agtcacccctt ttctttcatg ctcacttgcc ggggacgaag ttggtggcgt agggccaggc 180
attgttggtg actgggtccg caaggtgatc agcaagggtc tccaatggac ccttaccggt 240
gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cgttcttgag 300
ttccttcacc ttaagctcag caaaagcctc tgggtcatca gcaaggccca atgggtcaaa 360
gctgccacca gggtagattg ggtcagtgac ctcaccgagg ggcccaccag caatacgata 420
accctcaaca gcaccatta ggataacttg g 451
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<210> 29463

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400015d03d1

<400> 29463



aaaacagaaa ctgccattgc cattgccatt gagataatgc acgtgcttca ttctacagaa 60  
 gctacaagga gccatgctat tacactaatc actaaacccc catggagaga tattgagaac 120  
 aatgaaatca tggataacat gtaaagcagc aaacatcaag ctggggtttta aattgttagc 180  
 gtgttaaatgt tgacgtactt tgttgatcaa tctcttctaa acaggtaacg ttcaagaaaa 240  
 ttgaccattc aacattaaca aggtacagac cacacatgtc ctatagcaac cgggctgagt 300  
 gcagagctgt tgcggcttca caccaccacc aaaaaagtaa caaagaaagg gtcttttccc 360  
 caaaaaagtc atcatttttg atagaagatg tcatagtgc ccagaccata tagtagtgtg 420  
 ataaaggaat gttcttttca gagctgcaac tagcatttgg gagatcacca gccactggca 480  
 tgaaatcatg atgattttaca ct 502

<210> 29466  
 <211> 479  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmst02400015d10d1  
 <400> 29466

cgtaattgat tggctagaag ttcattaagt agaaaaggta caagtaataa tcatcattaa 60  
 aaatagtgtc caagactata taaaccacaa acacaattta gacaaattaa tgttgatcc 120  
 ttgggttact gtagcatgtg tggcaagatg atcttagtag gagtaacctt tgacgaacat 180  
 tccccgagtg gcttcctcag attcaccctc ggcagtgtac tttccaagct gagcgagtga 240  
 gttggacttg gcacggaaaa ggagtgcac ttgagcagcc tttacgttct caggagatcc 300  
 accccatgtc ttcaagcagg tgtttttgag agctctggcg taggagaagg acacgtgcc 360  
 tgggttttga gactggttca tagcattcaa gttcaagggt gttcaacct cagattgtcc 420  
 gccagacaga aacatgattc cagggacagc aagtgggatt cttctgtgaa ggagcttga 479

<210> 29467  
 <211> 403  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmst02400015e01d1  
 <400> 29467

catgaaaaaa atgtcaacta atagtcaa ataccataaaaa agaacatgca caaagtctctc 60  
 ttacactcac cctaggetca tcggtaaaaa tggtagagtt ttcattaagt ttatgaaaaa 120  
 aaggaaaatg aactcacata gtaccaatctt ccatataaac cttccacaac agagattcgt 180  
 gtaacaactc aatcgagga acacatcttg ctcgataact tagcaaatg gaagaaggat 240  
 gagaagtgc ttggtaatga aaaaaaatc atgacccatc caaaacactt ctacaagaac 300  
 taatgaaccc actaatcttt cattgaatga ttgactgat gacaatcagg aacctgaact 360  
 tgtgcctaaa caaagggaag agaaaagggtg tttggcttcc ttt 403

<210> 29468  
 <211> 52  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400015e02a1  
 <400> 29468

tgacaagttc gatgtttggg tagatcagtg acgcaatata agagctatga cc 52

<210> 29469  
 <211> 347  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400015e05d1  
 <400> 29469

gtgttatgtt ttatatattag attttttgca acattttgga ggattatata ttcaggagat 60  
 ctacactata ttacatgtaa tataaaggaa ttaacgaacc caaggaaaaa agactgctaa 120  
 ggagctctca ctcgactgaa ataatgaact gaattgacag atgtcaacaa aaagatacta 180  
 gtattttaca aaaaaacata ttgcattcat taagcaacgg acccctacg ccaaagaaat 240  
 aacatccatt acagaacacg atccggagta acctttggcc atcctgacgc cacacaggaa 300  
 attgaatttc taaaagatg ttccataagc gaggcaacag aacttca 347

<210> 29470  
 <211> 561  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015e06d1

<400> 29470

ccaaattgaa acaagaaatt ttattgccat cgtagctcaa ttacatttag tctccatctt 60  
gcatcttgta attttgctat atctgagact cttttgtctg cttcacattt ctatagcaaa 120  
acgtaaaata gaaacatcta acgaccaatt cgtacacaag gtacacgtac aataacaaca 180  
gtggaagaag aaattggtac ctataaaaaat aacttgatc ggatcgagta gagtatacat 240  
accacaagtg tcaataacat attctttatt aactcattt taacacattt tttatgatta 300  
gtttaaattt attaaaaact ataaaatcac ataaaaaaaa taaccatgaa ttttccagat 360  
ttaattttca ataaatttta gtgacgaaat atttcatatg taacttttga aaaattcatc 420  
actaaagttt ttgtaacttt agaattagtg acgaaaaggc aatacatcac taaattccgt 480  
cactaataaa catattttaa agagtgtatt agaaaatatg ttattaacat ttttcttgtc 540  
tgagataaag ttagacacta a 561

<210> 29471

<211> 441

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015e07d1

<400> 29471

agaacaatca taagtaaag gagttgaagc aatctgggct ctagatgaaa gtttaaggac 60  
aatccgagc aatgctatcc atcacaacta atgctgatac atacatcatg ctataactaac 120  
aagcttgatt accaagaccg agcaacgtac agtgcctctt atgacaattg agtaggacag 180  
ggggataaat tatccatctg ttggacatta aagtgagcat cagtacgac gactttgcaa 240  
cacctgata acaggtaagg caaaagtaga ctctgatggt gaaaccatac atgagcagct 300  
acaggtgtgg ctacggcatc cgggtcaatt ctgagtgatg accaccatt acctgcaaaa 360  
tctgctacca caaacttttt gaagaatctg ataacgcctt acacaggaaa gttgagcttc 420  
gtgcagttac ataccgataa t 441

<210> 29472

<211> 312

<212> DNA



<400> 29474

ggtggttgaa gaaccacttt gatggcagcg tcaaagacgg ctttcacatt ctgctgtgtt 60  
 tttgaactac actcgatgta ggcaggagca ccaatcagtt ttcttaattc ttctccctgt 120  
 gctgtagtaa ttggtactgc accaggggtg tccataaaaa attgcttata tccccgaaga 180  
 tctaactttg ttccaacgag aattattgga acaccagggg cataatgcct tagttcaggg 240  
 atccacttct ttgcaatatt ttcatagcta gccttgctta tgagagaaaa ggcaagtata 300  
 aaaacatcag ctccctcgata gctcaagggt ctaagcctat tataatcttc ctgaccagca 360  
 gtatcccaca atgccaagtt tacgggtgctt ccatccacca caacattagc actgatattg 420  
 tcaaaaaccg tgggcacgta gtccgtggga aaagtgttgc tgggtgtagga aatcaacaaa 480  
 gcaggttttgc cgaca 495

<210> 29475

<211> 336

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015f03d1

<400> 29475

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 tgaggggtga aactacactc gctgtaggca ggagcaccaa ccagattgct caattactgt 120  
 ccctgagcta gagtagttgg tcttcacca ggggtggcca taaaaaatcg gttatgtttc 180  
 cgaggatcta actttggccc accgagaatc atctgaacac catgggcata atgccttagg 240  
 taagggatcc acttctttgc gatattttca tagctggcct cgcttatgag agaataggca 300  
 agcatggaaa catcagctcc tgcatagctc aagggg 336

<210> 29476

<211> 450

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400015f06d1

<400> 29476

aacaaactat tgatttttat tattaaattt gggacagagt tttgatgatt tttttcttca 60

gattacatca taaaattgca aaatattgaa ccaaccaccg tggaagtgtg cataaaaaat 120  
 atatgaagca atcatatata gcatacctca gaataaattc atagagggat acaacaatct 180  
 catatcccta atccactctg ataaactcac cactaaagca ctcagtactc actcctttct 240  
 cacaatcata acactcttga atattaacta catgggtatgc aatgggtttat gatgagaata 300  
 cagtcatgag aatgagttca aaaacacggg ataccactt tccatgcaca ttgattttca 360  
 ctgtgccaga agtttcgggt gtgggattag tttgggaaga ttctgacgta tctgcggata 420  
 atggatcctt atcagcttta ggagcctttg 450

<210> 29477  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400015f07d1  
 <400> 29477

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 aatcgtagaa atgcatagcc aacacaactt attctgatac atacatcaaa ctataactaac 120  
 aagcttgggt acaaagacca agcaacgtac aattcctctt atgacagtag agttggacag 180  
 ggggataaat tatctattta tttgacatta aagtgaacat cagtacagtt gactttgtag 240  
 caccctgata acaggttctt caaacatttg actctgaatt tgaaaccata catgagtagc 300  
 tacatgactt gctttggctt ccggtcaat tttgagtaat gaccacccat tagctgcaaa 360  
 atctcctacc aaaaactttc tgaagaatct gatagagccc caciaagcaa acttgagcta 420  
 catgcagcta cataccacta atctgactca atctcatctg tcaactgat 469

<210> 29478  
 <211> 460  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400015f08d1  
 <400> 29478

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 gtaacaatat tctttttcac aaacactttc attaatacaa tactcaaac aaactatttt 120



ctttttttct ttgagtgcga ggaagttcaa agaacctagg ttgccccatt cataggccat 180  
 gttcaatttt tggcgagagc ttataatgat atttacagga gtcttaccaa tgaaagatcg 240  
 ccaacaagaa tagaatccaa gaaacccccac tataatataa ttgtatttat tttccttaaa 300  
 ttaataatta ccacaacaat tattgaaaag tggatttgaa gaaactagtc ctagtccttt 360  
 cttttgggag gaccgggaag aggagtgccg tctaagaaat atttgatcaa agttagggct 420  
 ctggctgggt ggtaactagg cacttgatgc cctgcttccc 460

<210> 29479  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015f11d1

<400> 29479  
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 catagcagat ggacagggaa ggaagaaata atcgggtattg tagaaccatt cttacatact 120  
 ttaatcctcc cttggttatc gcagagagtt gcacaccaac acattttact gatagtacac 180  
 taggtgttgg gtggttgcaa cattctggaa ccttgcattha aaaccagtcc cagtggcacc 240  
 cattcccatg tctacatgct ttagggcatg ttgaccttgt tgatgcataa ggggtgtgtgc 300  
 accaccatt ttacttaaag ccatttgacg ttcattatgc tgcaagacca gccagagaaa 360  
 agcccgga t 371

<210> 29480  
 <211> 489  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015f12d1

<400> 29480  
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 ggtaggctgg tgaaaatcct aaattacttt ttcacatcca taggtgcaag ttccaaatct 120  
 ttctatattg gtgtacagca ttaaaatatt tttaattgaa aattcttgggt ataagcatca 180  
 gcctaattctt gcttctcttc gtaacacctc ttcagcaaat tttatcaaaa ttgttgtccg 240

tggtcgttgt tgaccttcca tggggacaaa atgagctggt acaacagctg gaaacccggc 300  
 accatccaaa acgccccgta ctattccagc aacaaatgct ccacagttaa acgttcccat 360  
 gtcctttggg atagaaatga atttgtttac taggagctcc ttttactga tcatgtattc 420  
 atcttcatgt tcagttcctt tctccagtga atcagctacc tttccaaata atactttcca 480  
 cactgtact 489

<210> 29481  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015g01d1

<400> 29481  
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 gaaaaatagg ccacaagtta ttgtagctta gataccagta acaacacacc aaatataata 120  
 gctgacatgc acaaagcaca tgaaatacta tatgaaacag acctacttcc acatagaaaa 180  
 atagaaccac aaatgcctta agcaacagtt tcaacaacag tatctgaagg cttgttttca 240  
 ggctcagctg aatcaacaat tgcagcttct gaaggcttgt tttcaggctc agctgaagca 300  
 acagttgcag cttctgaagg cttgttttct gaggcaacag gtgcactttc taaaggcttg 360  
 tttttagatt gtggtgcttc atccaccag aatgcagtct tcttccaga tttggaaacg 420  
 gcttgcagaa cttcatctg 439

<210> 29482  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015g02d1

<400> 29482  
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 cttatgtcaa cgtacagggt acccatgcga ctttgaagaa tgaaaatata aagacgtag 120  
 ggacatagcc cagaaaaata atttggcact tcaacttaga accatgtgta atatgaatca 180  
 tcatactgag aagaaaacag aagaaaggaa aagaacatga catccaacag aagtgcata 240

gctaaagtac taataaataa taagctcatg tcagaaatct gcaaagacgg caaaaagatc 300  
accattgatg taatcattgt cgaccaaact aaccaagaag tggctgcccc caacctcttc 360  
aaccaatttc ctggatgcct catcctcagg gtacaagctt gcccatcctc ttgaccaaat 420  
ttcaaagcc tcctccttcc atacattgaa gctgacagga tctacaatg 469

<210> 29483  
<211> 513  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400015g05d1  
  
<400> 29483

gcacaaaact ggtaatatTT catatcaata aggattgogg caaagccgca aagatacaac 60  
attcattagg gaaaacagga gttgggaaaa ataaggggag agggggttgag gaagaatcaa 120  
ttgctcacag agcatgctaa aacatctaaa tattccacac acgggttattg aaacaaccca 180  
atatagaaaa tttttctttg gtgtattata aaagcagaac caatgaactt gtagattcta 240  
ctttcttata ccattcactt ggcaagttcg ttacggatga gttttgctgc ggcaaccatg 300  
tttgtgaggg ctggcttcac ttcagtgtac ttgcgggtct tgagaccaca gtcaggggtg 360  
accacaaga tgttcttctc gagcactgca agcatcttat tgattctgtc agcgatttct 420  
tcagttggtg gtattctagg ggagtggatg tcatagacac cagggccaat ttcagcacca 480  
tacttcacac ctttacggaa gactgacagg agc 513

<210> 29484  
<211> 382  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400015g07d1  
  
<400> 29484

caatgagggg tgccgaaggg ccgtgatgat acgacattca ttagggaaaa taggagttgg 60  
gaaatattcg gggcgagttg gtgaggaaga attctaggtt taccagctt gctagaacat 120  
gtaaatcttg cacacacggc tggtgatgca accaatata gtacactatt ctatggtgaa 180  
ggagcaaatc atgaccggtg aacttgtaga ttatacttgc ttataccatt cactgggcac 240

gttcgatcgg atgagctttg atgcgctacc atgtttgaga cggctggctt gactgcattg 300  
 aacatgcagg tcttgagacc agcagacagg gttgacccat aataccatca gcttttagcac 360  
 tgcaagcatc ttatggatta tg 382

<210> 29485  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400015g08d1  
 <400> 29485

gcaggatg caacatactg ataggatata aagatatata tagtgtttaa agtttcttag 60  
 gtattacaac tttatttcca tcaccacaaa aatagctagt tgatgtaatt ggtagcaaac 120  
 ttgtgtgttt ctgttctcta tcaacttttag tccttggtga ccttttctag acaacttggg 180  
 tgaaggatc agtcacagac atcacaagag aatgtccaaa acttgccctg ctttttacat 240  
 gaatcacata catatgcttt ggccatatcc aatttcagta catgttcatg cttcacatcc 300  
 tcaacctgct gaggcaaage ctatccttcc tttctaagag ct 342

<210> 29486  
 <211> 574  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400015g09d1  
 <400> 29486

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 catgattcat agccacattc atagtgtgca agtagaaaca agcatgcagt cacctctata 120  
 ataaataggc gccagtcctt tctctgcaca agtaacaaaa atagtaaata caaaaaaagc 180  
 aatcctgcag attcacaatc aatccgtatt taacatatca aatccaataa tccatagttc 240  
 catttctttt gcatagttta tggctcagta ttctcttcca actcatgttt tgattccttc 300  
 tcttctgaga tgaaatctga actgccttca gcagcaacgg tcccatcadc agtatgtcct 360  
 acagctggag gggtctgaaa gagttcatta ttttccaact gagccaactt atctttggat 420  
 tctcccttta gtagctctac tacctcgagt atgggtgggtc tcttctctgc ctgactctga 480



acctgttgaa aattagaagg atgaacgtcc tagtcctatt gaagagtatc cagcagctcg 480

<210> 29489  
 <211> 402  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400015h05d1  
 <400> 29489

cagaacttca tactttgttc gatcgaagag cacaggcagc atttcagcat tactacagga 60  
 ggctattgat atggaaaacc aagttttatc aactaaacca tcagagcagc aaagctcagc 120  
 accttaggca tactgcttac gggactgatc gacagcgatg aagttcgcac caggatattt 180  
 cgctgcagct ttccctggga aagcagactc atatccaaag ttaggaggat ccccttttac 240  
 ataagaagag tggctaattg acaggatcac attcacagat ggtgcggcct attcaacttg 300  
 ctacacgagt agtacatctg gaacatagac tctgtcaaga gtattaccaa tgtttgactc 360  
 gcacacagtt accagctcat tcaccgactg ggtgttaact gg 402

<210> 29490  
 <211> 497  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400015h09d1  
 <400> 29490

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 aaatatatga atgtttgtaca tgaaatgaaa gattgaatct ctaattgaga cataattatt 180  
 gttgttccag tcaaattcat gctcctcgt caaccacacc gacagcgtag tggccgaagt 240  
 ttctgcccctc agataatata cgctgcttat taagtgattg cgtcctagcc ttgttcaaaa 300  
 acgaatttgg agacttaaac attctctttt caccaccaga cattctgtgt tcgttggtat 360  
 taagatactt tctcttcggt gagaaaccaa agacttcatg taggaactca ttttctgca 420  
 tatgcttgat gaatcctccc ccaagaaaat gctngataaa attcaactgc atcatttcag 480  
 accatgatga tgcttgc 497

<210> 29491  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400015h11d1

<400> 29491

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 aattgacacg tacgagcatg tgtaacgtac acttgggacc aacacccttt aaactgccccg 180  
 acctgaataa aatatccgaa aaccatatta acgcagttca caactacagc gactttttgta 240  
 tggttttccaa aagaggtagg cctaataaaa tgaatagaac ctatatccga tattattgtc 300  
 acaactttaa ttctttaaga aagtgatcgt cataatatgt gatatcatgt a 351

<210> 29492  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016a10d1

<400> 29492

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 aaaacaaaaa cgcttggcgg ggggggaaaa aatttaaagg ggggcaaggg gttggatttg 120  
 ggcccaaaag ggccaaaatt ttttttccaa aaaaaaacct taaaccccc ggaggccag 180  
 caattcccaa ccttaacttt gggttcgggc ccttaaaatt ttaacccgac cccaggggt 240  
 ttttcccaaa aaaaaagggg gggccaacct tggggcccc tggggcccct gggaaaacct 300  
 cccgggcccc cataaaactg ggggccaacc gggaaatacc ctggctaaaa cgggttaaac 360  
 cccccgtttg cccccccggg gtaacaaggg ccccagggg gcaaaaagg 409

<210> 29493  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016a12d1

<400> 29493

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 tttctaaagg ccggataccc cgatcatgtt tctaagacgt tcaacatccg ataccaaaat 120  
 atgtggtttt actcggaaaa aactctcgga agacagcacc cccatcaaca ctattagaca 180  
 accataaggg ctaggcttgc gctcaaagcc ccccaaaata tgtagacccc ttttgaaaat 240  
 tattttaccgc aagcttgtga acccagcatc ggccctaga accccaagga atgtaacact 300  
 ctgctccaaa tccccaatgg ttttttgggc actctgttca accctggatg 350

<210> 29494

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400016b01d1

<400> 29494

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 ggattacact atttgacgtc tcgtaacaaa ttaccacaa gtacatacca gacgaacaag 180  
 aaaaccattt acacgagaaa ttttcaattc cacgagcaat cagttgctgc aacacaatcg 240  
 tcgttctttt tccccacatt catagttgta gaaaaacctg cctaagtttc tcacgagctt 300  
 cacgaaagca aaacgcaaga aaaatcgcac aattacacaa gcaactacca cctgtcaagc 360  
 tgcaattaac ttcttttaaat ggagaacagc atgaacaggc gttatataac actaaaaatt 420  
 cttgaacata ttgctgacca agtactcctg aacaaaagct tgaagacaaa ggaccaggag 480  
 gaagaaggcc ttatcttttt attcaaacaa gtggcattct ataatacttc attgcccaaa 540

<210> 29495

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400016b09d1

<400> 29495

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aacggatcgt ctcacgtga taaaagacta acagaactat tacaatacac aattcgctaa 120  
 agtgaaatgc cacacattgc aactttgcc aacacacaa tttgcagttc aggtgcgtcg 180  
 ctgtttcctt gtttaaagag cttcaatttc cctcatcact tgagctttgt cagcttcaaa 240  
 ttgttcaccc tctttgtcaa ttttgaagtc ttccaacagt ctcagcatct tacttttgg 300  
 cgcaacaaat ataccgacga tatcagctgg cttatgttgg ttagcagcaa atagcttgaa 360  
 aacatgaaat gcttcaatct gtatgctctt gcttgactct cttagaagat tcattaaaat 420  
 cctcaagttg tctcttgagc tcacatatct tgtcattacg gctgaatttg aacgatcaag 480  
 taacatatct tccaacaact tgacagcttg acgccttgta atataattgg aag 533

<210> 29496  
 <211> 619  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmst02400016b11d1  
  
 <400> 29496

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 aggtctaaat gcccaaattg tctctaacag aagctaaaaa agacaacata gaaaaacaat 120  
 aacgtatctg gaaaaccaga cttattttca caaggacaga ataataaaga cacttaagga 180  
 aactactctt cctcatcttc ctcattccag cacttttagag ttgatctagg tgaaccacag 240  
 tcactagtct tcccgaattt ttggtagaca acagaaccac ccattccaag cccttcgtgg 300  
 ctctctctt cagcagagta tcccttaaca tccagaaagc aggtctgctc aaacgacttg 360  
 cttgcaccat ccacatgaac tgcaacagaa aactcagttg ggaggaaaca tgccaatacc 420  
 ctctgaacca tttcgttcag attcaccgct ttgaagtcac aaccaacagt ttcgaagctt 480  
 gcataactga aaccatcttc tggggtacca tgaattgtag aaacagcagc gcctttaaca 540  
 gagtccattg aataaccaca tgggtcaaag tcaaagtcac aaatctcgga atctggaaga 600  
 attttctaata gccggaata 619

<210> 29497  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016c08d1

<400> 29497

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agaacaactg ttcacccgaa agaaaggaaa atgttaatgg aacacttcac ataaaccatc  180
gcaaaaaaat atttacggtt cgacacaaca gttgggaaca tgcatttacc tatacgcaca  240
cacaacttca aaccatttgg accagagacc taaatcataa cagcaaatga cagacatttt  300
catttccgaa tgaatgccac ggtagcaaca cgggagccta cggatccacc aaacatgaat  360
gttggatatg tgcggacatg acttacatac tgaaatgggg gctctctgca tggctectca  420
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<210> 29498

<211> 572

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400016c09d1

<400> 29498

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aattgcataa atggttgccc ggcaactgcaa ccaaaagcat gtctagaccg aaacaagcac  120
caaaactgct gatgtgagtg cttgttgatt gttaatatga acctatattg aacacaaaat  180
tctgaccttt tacatcagat atatatgate tataatcaga cttatgtaca cttgacatca  240
ttcatcctac ttggagggta cgtctttgtc acaaactg cttgcttaga gattcttttag  300
ataacagcac ctgaagcagc tcacgtagcc tctcagcacc aggtcctggc ctaaacttg  360
tatcattgcc acgaacagaa caagggtcag ccccaccatc tgtgttccca acacaccatg  420
caccaggtga aaatctatgt gtgcgcccc gaagttcttt gtcaatcttg tctaactg  480
gatcctcctt tgcaaaattg cgcgccaaga gtgccttgct tttaaccatt tngtcaaagt  540
ccttcacagt taaagagatg ggatgctgct tt   572

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<210> 29499

<211> 532  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016c10d1

<400> 29499

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 aacaccaaac atttgatagt ataattttta cactattagc ccattctatt atcttatcct 120  
 tatcatatat gctgcaaaca tggcctaata acattcatat atgtctaaat cagggcttta 180  
 agaataatca actcactcaa tccgcataac atctctctcc tctttctatt gtgacctggt 240  
 taacttattc aaacacacac cacccaagca gaaacatctg aatcaaagga gaaaattgct 300  
 ctgcatatct gaaccttcac atgctctttt tggttaacaga atggggagag ctgtggtcaa 360  
 tagcctgcac ctgactccga agattctgat tgtctgcaa gaggcgatca tattccataa 420  
 gaaaccctc agattgcttt ctaagagcct tcacctcagt ttccaaagcc ttagccttgc 480  
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<210> 29500  
 <211> 528  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016c12d1

<400> 29500

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 tttccaatca tacacaatat tgcaacaaca aaaagaattt taiaaaaaaa agactttctt 120  
 tttttacttt ttttaccbaa aacctaaagca aaatataaaa acaaacgaca ctttttttta 180  
 gactctttaa atccaaaagc tgatcacaat caaaatcaat ggcgttattt atgaaagctc 240  
 cataagactt caaacgacca aaagccggtt tctccattga tgttctcttc aaacatgaat 300  
 ttactcttca atagcaaggg gcacagactc agccaatttg cgttacttga gagcatagaa 360  
 catctcgagg taacgtttgc tctcacggcg ttcaagattg gtcacgtgct tccagaagcc 420  
 atacacacca gtgagtgtca agagcctgtc cgagtaaatt tgccatgtgt acttctcatg 480  
 aatacgcttg agtccaccct gggagatttt gtcccagtga gatggatc 528

<210> 29501  
 <211> 506  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016d01d1

<400> 29501

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 aaaaaattgg gaccactccc ccggggcaaa agaatggtaa taattcacat gttcatcact 120  
 atagacagga tgataattta actatgcttt ctatgttaca aatttgattt tcatgactca 180  
 gcttatggca gctgaaatgc cggtcactcc aatatccatt cttcatgttc atggcatgca 240  
 tgactgtaac tttttcagtg cagccaagtt ttcaaagtgc aattccatga tctagccaaa 300  
 gtgatcatgt ttttgactca tggctcgtgt ctattgactc ggctatgaag ttccaacatt 360  
 tcttggtggt tcgggtccac tgagagggca gcacgacagt ctcttagagc acctaagaca 420  
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<210> 29502  
 <211> 581  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016d10d1

<400> 29502

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 actcaacacc ttaacctaaa ccataaccca acgattccta cctgactaac cacaacacag 180  
 taaaacaaga cacacaactg agcttagtaa ctcaaccttg actcacacac acaatgcttg 240  
 tggatcatga actacattgt ttattcttaa cattatcttc aattattcaa taagtctcca 300  
 ttttatttgc actcgaatat ttatctatac aaaacttaga tagagtacct caaggggttac 360  
 cactattact ctctgatcag aacaaaaatt tcaccttgat aattagtaaa actccaattg 420  
 tcgaggtgaa acttcaatta taacaaagaa taatactata accactaaaa gaactgtatc 480

taagatttgt actaatgaat atgtgatggg tcaactctttc ttctttttaga tatcacacat 540  
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<210> 29503  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016d11d1

<400> 29503

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 ttttaccat taaacaaact tatcagctag gctttgcacc ttagacaaac tgattaaggt 180  
 actcatccac agtgatgtat ttcacatcag gatatagagc tgaagcttcc actccaaaag 240  
 aagactcaat ttcaaagtta gtatgatccc cctttcctta ggaggagtgg ttaattgaca 300  
 ggatcacatt cacgggtggg gcggact 327

<210> 29504  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016d12d1

<400> 29504

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 aacaatccca agaacaagtc aatgtttttt gactgctcca catttttaaac ttgttgaaag 180  
 ccattcatcc acattgcaat ttgataccac cttgacaact cagacgcctt aagcctcctc 240  
 ctctctttca tctcataact cttcctcgtc aacagtagca tcttggtatt gctgggtactc 300  
 tgccaccaga tcattcatgt tactctcggc ctgggtgaac tccatttcgt ccattccctc 360  
 accggtgtac caatgcaaga aagccttgcg cctgaacatc gccgtgaact ggttgctaac 420  
 tctccggaac atctcctgga ttgatgttga attcccaatg aaagtggatg acatcttaag 480  
 g 481

<210> 29505  
 <211> 620  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400016e08d1

<400> 29505

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 gctgtggaat gctgtcatat ttggtcctga tgatactcca tgggatggag gcacgttcaa 180  
 gttgacactc caatttactg aggactatcc aaataaaacca ccgactgtac gatttgtgtc 240  
 tcgcatgttt catccaaata tttatgctga tggaagtatt tgtttggata tattacaaaa 300  
 tcagtggagt cctatttatg atgtggctgc tataactcaca tctatccagt cattgctttg 360  
 tgatcccaac ccaaattctc ctgcaaactc tgaagcagct cgaatgttta gtgagaacaa 420  
 gcgtgagtag aatcgaagag tgagggaaat tgtggagcag agttggacag cagattaagt 480  
 tcatecttat atgcatggga agctttgaag gcatgaattt ggttgcagtg atggcaacta 540  
 ttagaatgat tgtgcaaact catcacantt atattctctg ctgatatgaa tgatagcatc 600  
 atcttaactt taattaatat 620

<210> 29506  
 <211> 531  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016e09d1

<400> 29506

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 caatgaaatt atgtgattgt acagtatgtc aatatagaaa aaaaaaaaaag aataacaaat 180  
 gttataatct taacaatctc caccttttca attcaggcag gcaagtaatt ctataatggc 240  
 attgcattat aggacaggaa tgttaaaccc ctttatcttt tttccaaagt gttgatacgt 300  
 tttgccatta ggaactgaaa caactgttat gtaacttaag gcatatgact cggcaacaac 360

aatgaggcat aagtcttata ccaaaaacaa aactgcaagt ttggcgtcaa gcagcaactg 420  
 atttgcttta attgggagcc aaaaaccaca ctgaacagct taggctcaaa tcaatgtgtt 480  
 cagggatggg tttatggttt ggccattctg acctttatca atgaggatct t 531

<210> 29507  
 <211> 443  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400016e10d1  
 <400> 29507

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 ccttttattg ggcccccaa tatttctaaa cttcggagca ataccccccc aaatttttccc 120  
 ccccttctt caatcacccc accccgaaaa aaaaacctta aaaagaaaaa accaaaaaaa 180  
 aggggtcatc ctaggccttc ctttcaaaac caaaaaccac cctgggcacc aacggacccc 240  
 ccaaggggac ccccttaaac catggccctt ttaaaacccc cggccctcaa accattaggg 300  
 gccttggtccc cccccgaggg aaaataaaca cccctgccc ggacattttt ctccggtttg 360  
 gctgggcccg gaccctcccc cggtaaacca cctgggccc tgtccccaaa aagtttcttt 420  
 ggaaaaaccc ccttatttcc ctg 443

<210> 29508  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400016e12d1  
 <400> 29508

aagtaaaaca tacatccata cttcataggt caaatataca aaaacttatc ttccaaaact 60  
 gtgtggttgc cccacccaaa ctcggaagc acaagtttca aaatgtatac tcttgataa 120  
 atgtcaagat ccaaacttat aatatgtaaa tactgatatt tattattact tcttaccaca 180  
 agcggcttct tagattatat ctagtggacc caacaactaa tcacaatgct caatactctt 240  
 aaatttggtg ttttcaccat ccattgttat tattcaagaa gagaaaaaga tccaaatcca 300  
 aaaacaaact acagggtccac atctgcagat agcctccaat ttatttctcaa gcaggattata 360

gaaaatattg aaggcacatc cctcacacca tcttggaaatg ttggggtaga actaactaca 420  
cagggtatatt gtatagctga agaaccttct gccaaagctgg tcggttacta atatca 476

<210> 29509  
<211> 433  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400016f01d1

<400> 29509

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tgtgtaccca aaacaggggtc aaaagaaaaa gaaacaaaaa aggaaaataa atgatacaat 120  
acaagaatat aataacagca acaaagcctg tctagaagac caaaacaagg gtagcccaac 180  
ccaaacctaa gcctcctaga accttcttca agcacatgat ggtctctgct ccactctcat 240  
cgttggcagc agtggcaggt ccaggggaag aagcgtcctc gctaggacca ggagccccgg 300  
tgggtggcgc aggaggtccc agcaacgacg gtgaaggagc cggagcaccg tgcttcttac 360  
ccttcttctt gtgcttgctc ggagccggag cgggagccac aggggtgggc ggcgccgaca 420  
ccggaacggg agc 433

<210> 29510  
<211> 543  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400016f09d1

<400> 29510

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tttcaagaaa aatacatgct caagtaatga aaatctaagt agggcaagaa aattagagac 180  
tgagatcat aatggccgaa gtaaaactcaa cttccttgcg tttaactaac aaatctctac 240  
gccttgtttg caatgttggt tgagagccag tcaagtcctt catagagccc ttcaccagat 300  
gtggcacatg tgctctggat ataccagtgg cgctgacgga gggaatgaag accaagctta 360  
tcagttatct ctgcagcatt catagcatta ggaagatctt gcttggtggc aaaaactaga 420



agcacggcat ctctcaactc atcctcattc aacattctat gcaactcatc tctagcttca 480  
acaactcggg cctgtgcatt gctatcaacc acaaaaatga gtccttgtgt attttggag 540  
tat 543

<210> 29511  
<211> 572  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400016f10d1  
  
<400> 29511

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agggtttttgt tctataacac tccacattgt atttgagaag agaaaaaaaaa ctgctccatt 120  
acaggtattg cttgaccact caggtgtgaa aactaaaatc tatcagccgt tatcacagca 180  
ggttgagctt caacatgcct ttttaacaaga tatggacca ttccaacagc ttctgaaac 240  
tttgagctt ttctgcaaa agcaggatta gcagaaactc tactagacac tgtcaatgat 300  
ttgtgtattg ccttgagca gttatatctg ccttccatac ctatttttgt cgtttcagta 360  
cttgggtccg taactttatt tataatctct tgttttgaac atatctccat caagcaccat 420  
ggtcgggcaa ccaatccact tagcattcta tagcccgcta gacgtatttc tgaatcctgc 480  
tgcaatactg acagaaaaag acccgatgga gtcagctttg agcttctgga tgctgtttca 540  
taaattaagc gtccagggtt tcttcttctt cg 572

<210> 29512  
<211> 561  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmst02400016f11d1  
  
<400> 29512

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ttaagaattg tttgaaagat ggagcaaaac aaatcatcag aaatagataa tcttccaatt 120  
ccgagagctg aatgcattaa ctacttctgc aggcaaaaag ccttaggcta ctactagaaa 180  
ttaaagaaaa ataatggaa attcccagag ttaactttca ataagtata actttaatta 240

gtctgtaaatt gcattcagcc tccttcccat taattataca gtttcttccc agaaccgaac 300  
 tgacctatca gttccacagg aaataaaaagc agactctatt ggtgagtgtt caagccagcg 360  
 ggggtgcacca acatgattag aaggccactt tgctactttt tctgttgtca tcgcatccca 420  
 gataacgata tcattgctca gttcatctat ggatagaata aattcttctg tctcattaaa 480  
 aatagcctgg caccttagct gggatatgtat agcaccacaga tattgtttga ctaatcttcc 540  
 agagccaact tcccatagct t 561

<210> 29513  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400016f12d1  
 <400> 29513

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 tgaaataaag taccatttcc attcacagaa taacaagggt ccacacactt tatatcctaa 120  
 atttgccatt taatagcgcc tttaaaagcg cgcaaataca caaacatgaa aaaaagaaaa 180  
 aaaatagcct tttgatttaa acaccgaatt gaataccagg cggaacgtg agaagatggg 240  
 acattaattt cttaaacggc tttgacgggg gcggaggccg ctgtgggggtt aaatggggca 300  
 ccaatggaag tttcgtgggg atcgtattct ggatcgtgac attcatcgat ggtttcgcga 360  
 cccttttaaa gacaagggtt acatgcgaat tttattgtga t 401

<210> 29514  
 <211> 350  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400016g01d1  
 <400> 29514

aaaagcatga atattttgtt gatttgatcc atccaatcat gcaaccttaa ttacttaaatt 60  
 gccacgtttg gagtgggtata tcttcgaaat cattactctt ataaccgaa agtttggttg 120  
 ttgcaaaaaa aatctaattt ggcatattac aagagacttc acgaatcatg caagttcaga 180  
 tgtacatacc aggtggaaaa agaaaagata ttttacacac aaaagacaca attaatacag 240

tgaatccttc tgatgtttcc attcccgcca tacacaaaag gttgatgaaa ctggagtggg 300  
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<210> 29515  
 <211> 597  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016g08d1

<400> 29515

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 tcattctctg gaggtcctgc tgcttcaaca gaatgatcct cgtgaggggg actgggaact 180  
 ttcttgttgt tgctttcatg gtcaagcatt ttctcagttt ccttttcggt agcagcaaca 240  
 tgacccttgg aagggtttgc tgatttagtt gaagagcttg atttctttcg tcgtctcttg 300  
 gtagcttggt ttgggttttg ttactattg tcaacttttt cagtgtccaa attattatgc 360  
 acctctcac cagatatatt caaaccttca gagtgattag aaaaatcagc gtcctcttgt 420  
 tttttaatgg acttggaatc agctaaagca ttatcttctc caacacatgc aacaccattg 480  
 ctcatocca actttggaga tatactcaca ccagtatttt ctggttgaga gggcgcaact 540  
 tcccttgaat ccttttaacc acatgtgttg actcctctgg tgactgtttt gctgaat 597

<210> 29516  
 <211> 602  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016g11d1

<400> 29516

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 caataacatt atttgttttc attgtatcaa ctaaaataac ttaacgatga gggtagcatt 180  
 taatcttact ccatcagaaa ttgcatctaa tttgtgttta gatctcggga agaaagtgc 240  
 agccataaga aggggaagcgg gttaaagaac actaaaactt gaagatagcc gcaccattg 300

atggcttggg agcaaataca taaaggccaa gatcggttctt cttaataacg cccttgtcta 360  
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 tcaccaaagc aacagcacaa ccaccccatc cagctccagt aagccttgcc ccaagagcac 480  
 cattgttacg acaaatatattt acaagttctt ccaactccgg acagctgcat tcatataaaa 540  
 cgctgcagct atgatgactt tcgttcataa ggctgccaag cttcttttagc atgtcctcgt 600  
 cg 602

<210> 29517  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016g12d1

<400> 29517  
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 caataacatt atttgttttc attgtatcaa ctaaaataac ttaacgatga ggggtaccatt 180  
 taatcttact ccatcagaaa ttgcatctaa tttgtgttta gatctcggga agaaagttgc 240  
 agccataaga agggaagcgg gttaaagaac actaaaactt gaagatagcc gcaccacttg 300  
 atggcttggg agcaaataca taaaggccaa gatcggttctt cttaataacg cccttgtcta 360  
 ttctagactg gtagaaacat tccttcaa at taaggataaa ttgtggaact atgctctctt 420  
 tcaccaaagc aacagcacaa ccaccccatc cagctccagt aagccttgcc ccaagagcac 480  
 cattgttacg acaaatatattt ac 502

<210> 29518  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400016h01d1

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 cctgatctag caacgtaata aaaaaggaca tggatatttt ccatctaaaa ttaagcatat 180  
 gcacaaacaa cactttcttg tataccagca ttcaacacgc aaaattttga cgcaccagc 240  
 aaaatgaaag ttcccttgtg caacttcaaa tccactatcc aatataatgc atataatatt 300  
 acagatatcg catggacagt tgctattgac attcttccga gaaaccaact ccaccgaagt 360  
 atacctattc ttttttctca tcttttccat tattttgagg attaagctcg tcatcatcat 420  
 aatattcttc aaaatattct tcactactat cctnctcatc atcataataa ta 472

<210> 29519  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016h10d1

<400> 29519

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 aaatttgatc ttggttacia gacttgttta ttaagaatta gaagatatag ctagacataa 180  
 aactagaata tgcaacaaca tcaaccaat ctggaaaaag attcttcaat ctctttattg 240  
 gatcaaccaa cttttggtct aaaattgcta ggtccactcg taatgcttca gagttgtag 300  
 cctctaacca gaaggtccaa ttcccatcgc taggtccact aagacgacat atatatgatt 360  
 gtggaccatc accataggtt tcagttcctg gaagcaaatt atctgcaa at gaccaacttg 420

<210> 29520  
 <211> 545  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400016h11d1

<400> 29520

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 ccttgatac ccacccatgt ctcaagagtt aagaccactg ggagtgttaa attagattaa 180

catataccag gctcccagcg accaagggta gtttctaaat tagtactatt tcttagtcaa 240  
 atccaattgt acattctttc ttgctcttca accgaatcct tagtcactta caaaattcta 300  
 cacaacctac tcagttcagt tctcctcatg cataagaaac aactaatgct acaaattttt 360  
 aactactga tacgctgtga cattgcacca agcaccgcga atccatcctt cactgaacaa 420  
 gctcgcaaag actgcatgcc aacaattatt tattcttgca aaaacaaacc tggtgaatta 480  
 ttcagctggc tcatattcat attaggcact acctgcctca tctgatgaac ttctgctgg 540  
 acgta 545

<210> 29521  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400016h12d1  
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 acattagacc tatgaatgaa gtagtagtag tcatggaaca cgcaaattat tcatccacac 180  
 ctagcaagac atccattgaa gggagtgtatt aacttcacaa caatcttaag cttgaggctt 240  
 ctcagacttg agtggcttca caacttccca ggtgaagtca gggtcatccc ttccaaagtg 300  
 tccataagca gctgtcttga ggaacctatg gccaccctc ttaagggtcca agttaatggt 360  
 gatcattcca ggtctgaagt cgaaattctc cttcacaatt tgaagaatct cttgtgcagg 420  
 aatcttccca gttccataag tgtccacaaa cactgacaag ggctcaggga caccaatggc 480  
 ataagaaact tggacaatgc a 501

<210> 29522  
 <211> 538  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017a02d1  
 <400> 29522

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tgtaaaagca ctaattgcaa ccaattgttc cagtttcata gtagtaaccc aaaaaacatg 120  
 aaaagtgaag tacaaatgca tggtagagaca cagctaatacc aagctactaa aacaagggac 180  
 agagcaaaca agtagaaaat actaatgagc aataccaata aataaaaagca aacacaaatc 240  
 cgaccaacaa aaactaatga ccccaaataga agattgtcct aatgaaaata gaattttcat 300  
 caaaacttat ctgccctgtc cctttttctgt tcatgtgctt tcaaagtgtt ttgttatggt 360  
 tgattgggcc tcaactggcc atcatgactt tgacaaactc ctgtagttg atctgcccac 420  
 caccatcaac gtcagcctca cgaatcatct catcgacttt ctcacgggc agcttctcac 480  
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<210> 29523  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017a03d1  
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 aattaatatc acacaaacgt aaagtggcaa tatatagttg aaatatatat aagcttaatt 180  
 tatacacaga aaccatgagt ataaagcatc ttatacaaa atattcaaca agaatttact 240  
 ttattaccac atcattatag taaaatgtca tgataaagtg gtgaaattct attgaatgct 300  
 tgtgtcaaga tgtttttata ggatcaaagt gtgtatataa attaaactat attttttaatt 360  
 caatatatat atattgttca cacattttat atatatatat aagaggtgct taacaagttg 420  
 gataggcaat accacaagaa ctaacgggtt atttggcatt aggagagtta acatactgct 480  
 tcaagctagg gtttttgagg tagccacaga agcat 515

<210> 29524  
 <211> 456  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017a07d1  
 <400> 29524

agaggactaa attggggatt tattcaaccc ctcccaaaaa aacagaagaa aaaagtaaca 60  
 ctacttgcac ttatagccat taaacaaaac tattgttaca agggatatgac aggtttctgg 120  
 taaaagattg tataaatgaa tatacatata tttccttata cttcacagac gaaaaagtca 180  
 aaaaatgaca atgaaaattg aacaggaacg ggtaatgaaa tgaatcttgg atttcttcga 240  
 agccaagacg acggatttgt atgacgatcc tacctttttc tcgttttatg tgtgagagca 300  
 caaatgaatt tatagaaaat tggttcaaaa tccttcgggg ttaatcccc ttttcatctg 360  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017a09d1  
 <400> 29525

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 atacattttt ccacgtcagg cttgcccatt tgattcgatt tcttcttgcc cactttcaca 120  
 agtttttgca ttgcatctct gaatatcaca caaacaaa aataacttat ggagtaggaa 180  
 ggtgatcttc caccctttcc tccaaacaga tgcttctttc aacactttta aaagaacaaa 240  
 aagacaaaat gaaaacaagg tataacaaga catcttagga atcatcgggg ttagtaatca 300  
 aaggtggttc ggtatcctcg ttctgagctt gagtttcagt ttgtgttga acttcctgct 360  
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<210> 29526  
 <211> 379  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017a10d1  
 <400> 29526

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aaattaacca aattccccgt ccaataatTTT cccggaaaaa aagcgcaaTt taaaaaaaaa 180  
 aactaaaaaa acacttacaa aacaaaacca ataaaaTTTTT aaaattacat aaaagtatca 240  
 gaaatctcaa atgcagacaa tgcagacact gcaacagtga gagccgcaga agctTTTTTtacg 300  
 tgaacccccgt cattcttacc ggcgggaacta ctccgttcag TTTTTgatga tggcgctttc 360  
 gccggagcac cagcgggac 379

<210> 29527  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017a11d1

<400> 29527

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 acagtcaggg cgctctctac ataaaccctt tattaaggaa aaaaaaaaca aagtgaactc 180  
 acgaaagcac gatcaattac tattaagTTT accgaaccga aaacggcgcc gTTTTggatt 240  
 caggtcttgg aagcttcgag atctgcagct ttctgaagaa gactattggg atcatcctcg 300  
 aggaccatgc ggatggggaa ggagccgagg ccgtcggcga tggcgagcat gatcttcctc 360  
 atctcatccc ggaactcgcg gcggtcgacg gcgccgctcc ggtcgccgtc gaacttgctg 420  
 aagatggagt cgtagagctt cgcgagctga tccggcggcg tggcgacgtc gatgccgaag 480  
 tgcgtctcga tgaggcgcat gga 503

<210> 29528  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017a12d1

<400> 29528

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 aaaaacgggg cccctTTTct cccctagcta aaaggggaaa cttctcaata ttgggggggaa 180



tcctagctgg gttaatgcc a gttcctgtga tgggaatggt agccaagtgg accaagaaca 420  
cagcaaatcc aatgggaagt ggagccaaaa taggaacgtg agagtctcta gcgtttctct 480  
tggcatcagt ggcagagaaa acg 503

<210> 29531  
<211> 570  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400017b04d1

<400> 29531

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atacataaaa aaaagggtgc attttatgaa cataactata gacacattac atatttatcc 120  
gaagcagctt cgtatcgttt tggataactc tccctctctc tagcttacag ctccagctct 180  
ttcaacattg gcatatgagc tacaatgca gtcataactt atcatcaaga atggtggaca 240  
tcagaagccc ttgcacgaat tcaaaccctc gagccttctc tacttgatcc tcttctgata 300  
gctgtaactg ctgaggtttt cttttcaaga aatcgctctt tgaactttct ttacttagag 360  
catcttcagt ggaaggaggt gttgcaactc cagactcatc agctacaact gggtaaaca 420  
taaagatga taacagagga tggggctcgg aatatgagga agctaagtat gaagaacctt 480  
caagaaggga ctgcaaggct ccttcttgta cctctttcta atatagaaat cgttgaagca 540  
agccttcttt ctgacctctt tttgcgctga 570

<210> 29532  
<211> 542  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400017b05d1

<400> 29532

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tttaggcata aacaatttcc tcagtgtccg cagaagccaa aataagctgg ggttcttccc 180  
ttccaactcc acacgttcca tcaattgcat tggtcctacc caaagccttc aacgccaata 240

gagccgcctt ctgccctgat atcatcatcg ccccaaacgt cggacccatt ctcggggagc 300  
catcaatttc tgcaacctcc atgccagtga caatcatgcc aggcacaatc tccctagtga 360  
gcctgacaat agcgtcctca gcagcattca tatccaaagc cttcattcca ggaacgctat 420  
caatcatccc aatactcttc aacctcttaa cccagtggtc gccaaagggc ccatcggtgc 480  
cacaagagct caccacaacc ttgccttca tcacgatggg gtccatgcat gactgcgtgt 540  
ca 542

<210> 29533  
<211> 386  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400017b09d1  
<400> 29533

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ttactccaat taaaatgggt tatggaagaa acctccacc cagcaaaca taagcaatat 180  
caccctttag gtttccttca ttctttggta cttctgctgc tacactgata tcagtctctg 240  
gattactaaa taagggcaga tcgtattatt cagcaagtca ctggggttag ggatattttt 300  
tggcggtaca ctagctagac tctacaataa gatctattct ccactacgcc cctgaagagt 360  
tgaaatgccc aaagaaattt ttgaa 386

<210> 29534  
<211> 522  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmst02400017b12d1  
<400> 29534

cacgagataa ccacttttta ccatatatat atagagagag agaatacgaa gcacactgat 60  
cacaggatga tgctctcttt aagtagggaa gcagatctta tcagtacaca taggtaggtt 120  
gaaattctag ctctagcaat ctagctagag aaggtagtac ttgcacaaca cacagcacat 180  
gataatttat ttatatacaca atctcattct catggtgctc aagatgcatg gactaattaa 240

gcaacaatgt tggctctgata ggcagtgctc acagataaat tgggtaccca taaaatggcc 300  
 ttgcttccaa ggaaatggca aacaggggta gttccaggat caactcccat aagttgatga 360  
 agcatttgat gattcattcc agaagtattt gagtggcaaa tagcaagtgc ctgagttctg 420  
 gttccatcac cagccaccaa tggaaccatg aaagctgttg tttcacggac ttcattggcag 480  
 ttaaatactg cagttctgaa atttagccta tgacacatca ct 522

<210> 29535  
 <211> 560  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400017c01d1

<400> 29535

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 tcatatttaa cagcattaag cttgcaaact tgcaacaatg cagttagaga gaaataaacc 120  
 aaaaaagtaa aataaaagaa agaattgggc caggtttctc ttattatatt tctctcactt 180  
 tttccttgca ttgctgcagt aactattgaa aaattgcaac tcctcaaata cgactttcgc 240  
 agaacattgc atactatagc agtcgagaag aacaactaac aataatgcct gtaaacagtg 300  
 gtcgaacgca atccgatggg gtccttattt aacaacgaaa gtctacatgt atgaccaaca 360  
 taagcaccat ggggtccaaa gacaaaaaca caagcttcat aacagtagga ggagattgca 420  
 ttcagcgaag tttacaggat gctatcctac aatccacct togttactta gtgcgcacta 480  
 cgcataattt catgcangta accaccagtc attatgaggg acacaagtga cacaacacct 540  
 gctggaaaga cttttctgat 560

<210> 29536  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017c02d1

<400> 29536

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tggaataaag acccaaaaat gaatgacaga aatacaacat ttgcatttta cacttgacct 180  
 ttcatagaaca catgagcctt gatgactcac ttttgctatt accaacattt gaaaactatt 240  
 gtagtattat gcaaccactt accttcatgg aggtggctgt gtaacgtatt taagaacttt 300  
 ggactttccc ttgagagtgt gcatgaaatt tggcaagccc tttctttcac cttttttgac 360  
 gtgctttaag ttcccacaat gcagttagct tcttctgcgt gactaatgtg aacttagcct 420  
 ttttcct 427

<210> 29537  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017c04d1

<400> 29537

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 atttactaaa aggggcaaaa acctagtcca aataatttta aaagcaacaa aaagactact 180  
 tgggctttta tttatttatc aaactttcca aatttttgaa atttaccaga tgaccagtc 240  
 ccttggaacc tttttgtaac ttgggacata gggactttga ccataagggg ggggttatctg 300  
 aaaataaagg ggaaaggctt catggggctt taaaggaact gggacttttg ggggctccaa 360  
 attttccttt ttctcctttt ttggg 385

<210> 29538  
 <211> 514  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017c05d1

<400> 29538

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 ccccgtagca attcaattac attgcccctc atgcatacct tttacagtct ccactaatca 180  
 tcatatagca tctcaccagc agaaaggaaa gtctactgtc tggctgcgac aactggccct 240

tccaccttga aagtggctcc ccagatttcc tctcattag caggaactgc agtaatctta 300  
 tttttaggat tctcatagca catcaatcct ccaacagctg tagagtagaa acatccttga 360  
 gggaaagaag caagtgactt gccacaagca ccattaagca attctgcatc atcagcaaatt 420  
 gctacgtagc catcagcagt tattccccaac tacagaggta ccttaccata ttgatcagat 480  
 gccacaaaga gggtagaagt agatttgta aaac 514

<210> 29539  
 <211> 500  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017c06d1

<400> 29539  
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 ttaaccttat ttaaaagatc tctatacggc acctttcctt cttacctcta cctttttctc 180  
 tactgaagca attaagcaac aaaacaatga cagctaaacc gagcaaattg ggagacgttc 240  
 tattttttca tgtcttgata ttatctacat atacgcatca gcggttgaaa accctgagct 300  
 gttatataat aaaactcagc ttgatataat atatctttga tcgcctttag tattgacaca 360  
 cctgttcatt tcccttgaga atattatact tgcaaagagg acaagttgca ttcattctta 420  
 accatttcac tatgcatgta gaatggaaat gatggttaca aggaagaaca tgaagttcag 480  
 ctccatcctc ataagaagag 500

<210> 29540  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017c08d1

<400> 29540  
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 taaacttctc taaaaatcaa catgatattc ctaaatacaa caagcagaaa tcaagatcaa 180

cagtaggcat caagatattt atattggtgc ttcttattat actgaagtaa gcttgcataa 240  
 gtccggtccc aaattccaat atacatacac tcatcatcag ggctcataga aaccccagaa 300  
 atttcccaa agaaatcaat ctcttgacgt tttctgtagt ctgctttcgt gctataaaca 360  
 tgcacaaaat ctgcaggctc agcaaccacc atatattgac catccgaaga aaaccgaata 420  
 gaccgggttg cccttaggtt attcttgaga atggcagtag gagatgat 468

<210> 29541  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017c10d1

<400> 29541  
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 aaatacataa ctttaaccata cataggtaga tgaaggaatc atattccttc tattcacttt 120  
 tattgaaaac cagggaaagt actgcaacaa ccatagagcc cctagatgga gatactgttg 180  
 ggaattcctc tgaaagtcaa tccctcctca ctagaaggat agagcaaagt gtaaggcatt 240  
 ttagccggcc cactgcggtt tctcaacgtc tcgtccttgt tcttctgtat aagcttttgt 300  
 tcaatctctt gaagcttctt tccaaacctc ttgaaggcct ctagtggacc agcatcagaa 360  
 gtccaatagt caccaccatc tctctcccca aggtagaact catcagatgt gtgccttgac 420  
 aagatttcta taattgtaag gtcaatgagg gtctccttct tgccagtaat agtcttcaaa 480  
 aactccttct cagggttctt agccaaagct gcatactcag cag 523

<210> 29542  
 <211> 507  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmst02400017c11d1

<400> 29542  
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 atataaacta taaagtaata tggattaatg aagtatacca tcaataaaca ctgtcaaagt 180



tgaaaacgct caaactcaga catatcaaaa ccaaacggta gagcaagttt caacagtgtc 240  
acattatttg gtggctaaac aagatcaagg caacaaacta gaaggttatc caatcagctc 300  
ttgcaagagc tcagtacctg tgagccagct tctccttttc caggtagttt tgaacatacg 360  
cgtaggtgcc gacgagggga ccgagcaaaa gagtggcgct gatccaattc tcggagacct 420  
tgtggtgaat ctctgtgggc aagtccttcc agagacctcg cataatcttt tgctggaaag 480  
gggaaagcgc gtagatcact gatttta 507

<210> 29543  
<211> 502  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400017c12d1

<400> 29543

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gtataatata tcacacaaac gtagagtac atatatagag taaataataa atataagttt 180  
aatttataca caciaactat gagtatataa catcggtatc caaatattca acaagaattt 240  
actttattac cgcacatgt taaaatgttg cgataaagtg gtgaaatcct attgaatgct 300  
tgtgtcaaga tgctttgtag gatcaaagtg tgtataaatt aaactgttta tctatatata 360  
tatatatatc ccacacttta attataagaa ggcttaatta attaacaagt tggaaaggga 420  
atcccacaag atgcaatcgg tttttcgggc attaggagag ttaacatact gcttcaagct 480  
agcgttcttg aggtagccac at 502

<210> 29544  
<211> 500  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400017d02d1

<400> 29544

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ttcccagaag atcgacaacc taataataga tacatcatatc atgcatcaaa ctagtgaag 180  
 aagcagtggc ttcaatttca tacttaattc ccacccaaat taaagcactt aatcttccat 240  
 gattgccaaa ttaattaagt agcccatggt gtccttcaaa aaccttgta tagtaatttt 300  
 tcttttctta tttttgaaag aagaagaaaa aaaaaaaagg actaaaagct ctacagcct 360  
 atctcactct ccaagagcaa ctggttacag ttagccgggg gatgaagata ctctcacia 420  
 acatcatcac aagccaattt ccgagcatcg ttggcgagcc tatcagccac acgattcgcc 480  
 ttggtggaga cagaaacaaa 500

<210> 29545  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmst02400017d03d1  
 <400> 29545

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 ccacattata ataaactaca taacccact tccttacct ataataaacc tatttctcaa 180  
 tctttatatt tatattccct ttgttctgct gtttggtttt ttctcccct atctgacatt 240  
 gcttgatatt ttgtcacgag tattgatggg gattctgcaa aattgtttgg acatctacaa 300  
 ttttttattc taaacatgaa ttttcttccg agattccata gacaaaagca acagccgttc 360  
 caatttgaaa agaacaaaaa agaagggaaa agagtcctaa cctaaaatcc aagagaccac 420  
 atcgccatac tagctagtta agacctagat gcttagattc aacaaagtta tagtgatctt 480  
 tcacgggatg ttacaagct ttgcacgtct ngttctctga tcaa 524

<210> 29546  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017d05d1  
 <400> 29546

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gtgggcaagc cctgaattag ctaatatctt gaaagtagta actcccctgc ctccactatg 180  
ttttcatgat ctttcattac tactagggcg agaaatccaa actgtcacia taaattacct 240  
gtgcaataac aagggtgcat tctctttcaa ttatttagct ttctccatca ttcattatca 300  
tcatecttca tgtacttctc ttgcactgct gcaactgtaa attgctgaat taagggaagc 360  
tcagaattca agtgaaactt tgaccacgaa aataagcaac ataattgata cattcatgat 420  
tatcagaaca ctaattaaga cttcagcatt agcaagctcc aaaatgcaac ttagaggact 480  
a 481

<210> 29547  
<211> 447  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400017d06d1

<400> 29547

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ctaagtattg aaaactttga ggcacagcac ctactgcac taataatcag ttcaacaagt 180  
taggattccc caagactaa aattcacact gactagaagt ctgggtagta ccacacacag 240  
gattactccc ataatatata tacatgccac aattcccatt tgggtgatgt tcatttgaag 300  
aagaatggct gacccttttg gaatgatcaa tcctttgtac ttgtttaaca tgaccctttt 360  
caggaagac cctggaact ggcctactat gtgaaaactt caagtaggac ttttctgggg 420  
ggtagttgaa gatagatgaa attggat 447

<210> 29548  
<211> 463  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmst02400017d07d1

<400> 29548

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 aaacaagtta tcatgtgata ttttgcaa at ccaaggtaaa acgataaatc tttccacaaa 180  
 caaaaaaatg gctaataataa aatttcgatt cctcatctta ttttattgat ttttaatttga 240  
 tataactaaat tttaaaagtt ttactttgtt actaatagtg tttcaagttg aacaaattgg 300  
 tcctttcctt gcattagttt tatgcactaa caatgcta at attgattgac gttacatacg 360  
 ttcattcttat gtaacatctt atgtcaccaa gttgaccaag ttagtgtggt aatggacca 420  
 cgtgaacggt atttgtgcca ccacacacag taatgttggg aga 463

<210> 29549  
 <211> 518  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017d09d1  
 <400> 29549

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 ttactgggtat gctccgttac agcggagcat gcagtgcagt ttgaagctga ggagtaatta 180  
 aacagctagt tggaggaagg aaaccaagga cacacctgag aggctgacac agtgtttatt 240  
 taatttagta ttataatatg atgtcctcca atgggttgta aggaagggtg tgaggcttct 300  
 cgaaatcctc gagactgggtg gggcgaaacc aggccttctc ctccagcgca tcagagtga 360  
 tggcagaagc agtttggtca ccttcttcgg ggggcccaaa taccacagtc tgtggatgtg 420  
 gggccagta tttgccggat tgtgttgccg cctggatcac atcgtctggg acctgcccag 480  
 actggatctc atcatcaggg ttctggtcgt aactgag 518

<210> 29550  
 <211> 473  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017d10d1  
 <400> 29550

caacacaaac caaacttatt ttcaaaggtc attacagacc cattacacat cacatttctt 60  
 cttaaaatgt ttgggaaaat ccaacatcga acatcacaca gaaatcagct ccagcttaaa 120  
 acccccacg aagacgcaac accaagtgc gagttgactc cttctggatg ttgtagtcag 180  
 cgagggtcct tccatcctct agctgtttgc cagcaaaaat aagcctttgc tgggtccggtg 240  
 ggattccttc cttgtcctgg atcttcgcct tcacattgcc aatggcgctg gagctctcca 300  
 cctcgagggt aatagtctta cccgtaaggg tcttgacgaa gatctgcata ccaccacgaa 360  
 gacgcatcac caagtggaga gttgactcct tctggatggt gtagtcagca tgggtacgtc 420  
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<210> 29551  
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 <213> Glycine max  
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 aatacccaa tgccccatt ctcttacaac ctcataaaca ctatgtatgt ataatcaacc 180  
 tcaaaaacca tccaattcac gcacaacaga ggtatcattc tcattatcat tataaattat 240  
 aaaatctcat ctcatatca aattcagaca acaaaaaaga aaattcaatt aatctgatca 300  
 cacctgcgcc tgatctctcc tttcctccca gtctgcacat tcaagagact caacttgtgc 360  
 atcgccctag caaaaacctg aaagaatcta ttttgatcct tggcgaagggt ctccacaaag 420  
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<210> 29552  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 aagaacacat acaagtacac aaaaaaaagg gggaaattca taaaaaaata cagaaaaaaa 180  
 aaaacagaat tgagtaagag ggaaggaaac atagagaaaa ttttagcaat cagataataa 240  
 gaagccagta gtagtgcaaa agtcccttgc caagagtgtt ggaaccctt ttagttaagc 300  
 aggtaccttc tcccccttga gtggcttcac cacttcccat gtgaagtcag ggtcatctct 360  
 gccaaagtgt ccatatgcag cagtcttcaa gaacctgccca tttccacccc tcttgagatc 420  
 aaggttgatg gagatcatgc caggcctgaa gtcaaaactc tccttcacaa tgctgaggat 480  
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<210> 29553  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 tcacttgcaa ttctgcaatt gaaaccagct tagaatcgta aacaggaata tagttcttga 180  
 agactggcat acatgggttg agcagccttt ggtctgtcca ccattcccag tagaatatca 240  
 gatgtggtga ggtaaggatc accatagaag cgcaaattgg catccatcct ggttgcaact 300  
 atatttcctt ccaaagaaac tcccacaaat gcacctttac tgcaactgta agtgtaacac 360  
 atgccagagc ctctgtcacc agcacgaata tctgcttcaa gcactctccc aacaggccct 420  
 gctgcagcac tacaaccagc accaagagaa aaatgcatat gactgcagaa tgtctntaca 480  
 gctttcatat cacgaagaac ac 502

<210> 29554  
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<223> Clone ID: jC-gmst02400017e09d1

<400> 29554

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ccccctggg aaaggcccaa taaacattcc aaatgggtgg gggccccccc ggggaagggc 180
ccctgtttaa agggcctttt aagcctgcaa gggcgccaat taattttttt tgggggttcc 240
ttttgcagga accgggcaaa taggtggggc ccagcgggg accccactg gggcttaagg 300
aactttaatt gcggggtaaa aa 322
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<210> 29555

<211> 402

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400017e10d1

<400> 29555

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ccgccaccat ttaaccccc cggaatgcc aaccatagta acagaaaacc ccagggaana 120
ggctacaacg tatgaagaac aacctaaatt tacattttta ggcttaaaag tcaaaataat 180
aacccttcta attcaggaaa tccaattacc aaagtttttt tcttgcttta aagcccaaatt 240
ccaagaaccc aaaattgaca aaaaaaggac agggaaatgt caaaagggtt caggaaaacc 300
tcatttgcca cccaagggtg ggaagtgcc aggatcctca attgatggag ctggagcatt 360
gctgtatgca tttccactgg aacctcctct agaaccacgg cc 402
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<210> 29556

<211> 520

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400017e11d1

<400> 29556

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ataccaccgt ctatcaaaac caaaagtaaa gcacagaacc aacaaaggta aataacaatg 120
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tctctaaaac atccataaaa ccaaaactag caaatcaagc atccaccctt tctctctcca 180  
 agattagagt cttccctggt ggttttgcc aatagatctgt gtactcttgg aatggagatt 240  
 tggagaagcg agtctccttc cagaattctg gtgtcaggaa tccatagggt ttcataaagc 300  
 aatcaaaagt agccttaacg aagttgccaa gggctcttgg ggatcccctg gaggaggtga 360  
 aaacatcatc aataaccagca aactgcagca ccttcttggg aaccctagcc gccacaatcc 420  
 cggaaccctt aggcgcggga accatcctaa cggtaacgga cccacacttc ccggtaacct 480  
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<210> 29557  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017f02d1  
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 tctttgacaa aatcaagaac aacccatgag aattttttgc ttaatogact tcttcaattt 180  
 tgggtccagc accgtttcca ctgccagctg caggaccatc ctcatccatg ggtccacccg 240  
 cattaccacc agcacccctgg tacatttttg ctatgatggg attacaaatg ctttccaact 300  
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<210> 29558  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmst02400017f05d1  
 <400> 29558

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 agagatggga aaacagagag caggattctg aatacatagc ccttgggata tttttcaatt 180